

**Program and
Conference
Information**

CROI

Conference on Retroviruses
and Opportunistic Infections

Seattle
March 4-7, 2019



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CROI FOUNDATION

The CROI Foundation is a 501(c)(3) not-for-profit professional organization that operates exclusively for the charitable and educational purpose of organizing, promoting, and presenting the annual Conference on Retroviruses and Opportunistic Infections (CROI).

Roles and Responsibilities of the CROI Foundation Volunteer Board of Directors

- Works closely with the CROI Program Committee (CROI PC) and the CROI Organizer to accomplish the mission of CROI
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IAS–USA

The International Antiviral Society–USA is a 501(c)(3) not-for-profit professional education organization. The IAS–USA partners with the CROI PC and Foundation to organize CROI. The mission of the IAS–USA is to improve the prevention, treatment, care, and quality of life for people with or at risk of HIV, hepatitis C virus, or other viral infections through high-quality, relevant, balanced, and needs-oriented education and information for practitioners and scientists who are actively involved in medical care and research.

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CROI 2019 PROGRAM COMMITTEE

The Program Committee (PC) is a team of experts in their given field who volunteer to organize the scientific program for CROI. Members are selected based on their area of scientific expertise and their commitment to the mission of the conference. Initial terms are up to 3 years; subsequent terms are based on previous participation and interest level. Members are nominated by the PC and approved by the CROI Foundation Board of Directors. The PC members are responsible for identifying topics and speakers that will ensure innovative programming; strategic planning; abstract review and program development; and organizing, conducting, or convening workshops, symposia, and special sessions.

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The Community Liaison Subcommittee is a group of community educators and advocates that provides feedback to the PC about the content and structure of the scientific program in general and specifically related to scientific topics of interest to the HIV/AIDS-affected community.



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SCHOLARSHIP AWARDEES

CROI is committed to supporting new and early career investigators working in HIV research to help them further their education and to network with other researchers in the field. New Investigator Scholarship awardees are presenting authors on accepted abstracts and have been highly recommended by their mentors.

In addition, CROI offers scholarships to international investigators and community educators working in resource-limited countries who would otherwise be unable to attend CROI. Through their applications and letters of recommendation, these awardees have shown that they will greatly benefit from the opportunity to participate in CROI.

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Fundación Huésped

Kamunkhala Gausi

University of Cape Town

Eduard Grebe

Stellenbosch University

Barbara Labella Henriques

Universidade de São Paulo

Elizabeth M Irungu

Kenya Medical Research Institute

Joseph Kagaayi

Rakai Health Science Program

Sarah Kanema

Zambart

Samuel Wilson Kgoale

Botswana Harvard AIDS Institute Partnership

Marina Kornilova

Alliance for Public Health

Tshepo Botho Leeme

Botswana Harvard AIDS Institute Partnership

Linghua Li

Guangzhou Eighth People's Hospital

Maneno Luponya

Jhpiego

Pholo Wilson Maenetje

The Aurum Institute

Sana Mahtab

University of Cape Town

Gosego Masasa

Botswana Harvard AIDS Institute Partnership

Sithabiso Daphne Masuku

Wits Health Consortium

Gloria Katuta Mayondi

Botswana Harvard AIDS Institute Partnership

Keolebogile Nicholas Mmasa

Botswana Harvard AIDS Partnership

Sikhulile Moyo

Botswana Harvard AIDS Research Institute Partnership

Malango T. Msukwa

University of Geneva

Kenneth Ngure

Jomo Kenyatta University of Agriculture and Technology

Robert Ntozini

Zvitambo Institute for Maternal and Child Health Research

Stephen Okobo

Makerere University

Oluwakemi Okwuegbuna

University of California San Diego

Lynda Myra Oluoch

Kenya Medical Research Institute

Carolyn Onyango-Makumbi

Makerere University—Johns Hopkins University Research Collaboration

Chen Shumin

Chinese Academy of Sciences

Kombatende Sikombe

Centre for Infectious Disease Research in Zambia

Nguyen Thi Mai Thu

Oxford University Clinical Research Unit in Vietnam

Peris Lucas Urasa

National AIDS Control Program

Community Educator Scholarship List

Oluwatosin Alaka

New HIV Vaccine and Microbicide Advocacy Society

Giorgio Barbareschi

European AIDS Treatment Group

Liz Barr

Johns Hopkins University

Jorge Saz Berges

Joves Positius

Giulio Maria Corbelli

European AIDS Treatment Group

Florita C. Durueke

New HIV Vaccine and Microbicides Advocacy Society

Ángel L. Hernández

University of Puerto Rico

Brian Kanyemba

Advocates for HIV Prevention and AIDS

Sandris Klavins

Atbalsta Grupa Inficētajiem ar HIV un AIDS Slimniekiem

Tapiwanashe Kujinga

Pan-African Treatment Access Movement

Udom Likhitwonnawut

Global Advocacy for HIV Prevention

Imelda I. Mahaka

Pangaea Zimbabwe AIDS Trust

Kennedy Mupeli

Centre for Youth of Hope

Lilian B. Mwakyosi

Tanzania Youth Alliance

Robert E. Newells

AIDS Project of the East Bay

Simon O. Ondiek

Centre for Health Research Advocacy

Julia M. Patterson

AIDS Funding Collaborative

Ferran Pujol Roca

Projecte dels NOMS—Hispanosida

Pich Seekaew

Thai Red Cross AIDS Research Centre

Laurie Sylla

defeatHIV

Jeffrey W. Taylor

HIV+ Aging Research Project

Harry C. Tembo

Zambia Community Advisory Platform

Teopista N. Tibaijuka

Mujhu Research Organization

CONTINUING MEDICAL EDUCATION

Accreditation Statement

The International Antiviral Society—USA (IAS—USA) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.



The IAS—USA designates this live activity for a maximum of **17 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Objectives

After participating in CROI 2019, participants will be able to:

- Describe basic science research advances in HIV
- List the most recent findings from clinical trials in the field of HIV and the implications of these data for state-of-the-art treatment strategies
- Describe current epidemiologic data on the prevalence of HIV infection, transmission, treatment, and linkage to and retention in care in populations worldwide; the implications of these data for public-health program planning; and current advances in biobehavioral prevention

Statement of Need

Since HIV was identified, the scientific response to the global pandemic has been a coordinated effort among basic researchers, clinical investigators, health care providers, epidemiologists, and community leaders to move information and potential treatment options from research to clinical trials and out to affected communities as quickly as possible. CROI was founded in 1993 by researchers working in the field of HIV/AIDS and its complications, as a science-focused forum for exchanging current research findings among their international peers. CROI continues to focus on scientific exchange, providing an environment in which basic science researchers, translational researchers, clinical investigators, epidemiologists, and public health experts meet to present and discuss the latest research into different facets of HIV and its complications, as well as selected other emerging infections.

CME Credit Information

Physicians (MD, DO, and international equivalents) are eligible to receive CME credit for participation in CROI. CME credits can be claimed for premeeting workshops, opening session lectures, plenary lectures, and symposia. CME credits cannot be claimed for oral abstract sessions, themed discussion sessions, or poster sessions. For physician attendees certified by the American Board of Internal Medicine (ABIM), Maintenance of Certification (MOC) points are available for participation in CROI. Other researchers, practitioners, and attendees can receive a Certificate of Participation verifying their attendance, as required by the American Medical Association (AMA).

ABIM MOC Points

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to **17 MOC points** in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.



Claiming CME Credits, ABIM MOC Points, or a Certificate of Participation

During the conference, links to the daily and final evaluations will be available at a secure web page on the CROI website at www.CROIconference.org/electronic-materials. You will need your e-mail address that you **used to register for this conference** and your reference number to access this page. To obtain CME credits, ABIM MOC points, or a Certificate of Participation for CROI, all final evaluations must be completed by April 9, 2019. Once the final evaluation and posttest are submitted, your certificate will be uploaded to your CROI profile in the CROI website or IAS–USA website within 2 to 3 business days.

To determine the number of CME credits, ABIM MOC points, or hours of participation that can be claimed, calculate time spent attending the conference, including premeeting workshops, opening session lectures, plenary lectures, and symposia. For example, if you attended 2 plenary talks (8:30 AM to 9:30 AM), and a symposium (4:00 PM to 6:00 PM), you would have a total of 3 hours to apply toward CME credits or ABIM MOC points (if applicable) for that day. At the end of CROI, please add the total hours you attended for your certificate.

A CME/ABIM MOC hour worksheet can be found at www.CROIconference.org/sites/default/files/uploads/croi2019-cme-worksheet.pdf.

Disclosure of Financial Relationships

It is the policy of the IAS–USA to ensure balance, independence, objectivity, and scientific rigor in all its educational activities. All faculty members (planners, speakers, presenters, etc) participating in IAS–USA-sponsored activities are required to disclose to the program audience any financial relationships with commercial interests within the past 12 months that could be perceived to influence, or give the appearance of potentially influencing, the written or oral presentation.

The Accreditation Council for Continuing Medical Education (ACCME) defines a financial interest as an interest in any amount and defines a commercial interest as “any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients. The ACCME does not consider providers of clinical service directly to patients to be commercial interests – unless the provider of clinical service is owned, or controlled by, an ACCME-defined commercial interest.” The information is intended to make the audience aware of speaker and contributor interests and commitments with commercial interests, enabling the audience members to form their own judgments about such associations.

Each author, contributor, or person in control of content in the CME activity is required to complete this financial disclosure declaration. In accordance with IAS–USA policy, the IAS–USA will identify and resolve ahead of time any possible conflicts of interest that may influence CME activities with regard to exposition or conclusion. Disclosure information is detailed in the Abstract eBook.

Drug and Product Disclaimer

This activity may contain information about the investigational uses of drugs or products that are not approved by the US Food and Drug Administration. Please consult full prescribing information before using any medication or product mentioned in this activity.

GENERAL INFORMATION

Overview

CROI was established in 1993 to provide a forum for basic scientists and clinical investigators to present, discuss, and critique their investigations into the epidemiology and biology of human retroviruses and associated diseases. The synergy of basic science and clinical investigation has been a major contributor to the success of the meeting. CROI is the preeminent HIV research meeting in the world and includes up to 4000 HIV research and care leaders internationally. CROI has facilitated the presentation of important discoveries in the field, thereby accelerating progress in HIV and AIDS research.

Conference Support

CROI is largely supported by participant registration fees. CROI registration fees cover all hosted attendee meals (including the Welcome Reception) and travel expenses for invited participants (eg, speakers, leaders, moderators, and CROI PC members), as well as selected meeting materials and other conference expenses.

In addition, CROI seeks grants from commercial companies, particularly from companies with competing products. These companies have no input in or control over the selection of faculty or content of the presentations. Commercial support is used to cover some of the costs of the convention center, audiovisual services, and other conference services.

CROI 2019 received grant support commitments from the following commercial companies:

PLATINUM SUPPORTERS

Gilead Sciences

Merck & Co, Inc.

ViiV Healthcare, Inc.

SILVER SUPPORTER

Janssen Therapeutics

Additional support has been provided by

AbbVie Inc.

Theratechnologies Inc.

Americans With Disabilities Act

CROI endeavors to comply fully with the legal requirements of the Americans with Disabilities Act (ADA). If you require assistance on-site, please visit the Attendee Services booth on the Plaza level during the conference.

Emergency Services

In the event of a medical emergency, please contact Security Control immediately by dialing 5127 from any house phone located in the facility. In addition, there are red "hot line" phones located around the facility that ring directly into the Security Control office.

CROI staff or any uniformed Washington State Convention Center (WSCC) personnel with a 2-way radio can also assist you in an emergency. Contacting Security Control will greatly minimize response time in the event an emergency medical unit needs to report to the WSCC. Security personnel can quickly assess the situation, and bring emergency personnel directly to the individual in need. For this reason, WSCC requests that our clients and guests NOT contact 911 directly.

Embargo Policies and Social Media

The research presented at CROI 2019 is embargoed until the conclusion of the session in which it is presented. For example, if a study is presented from 10:15 AM to 10:30 AM as part of an oral session that ends at 12:00 PM, the embargo on that study lifts at 12:00 PM. Embargoes on poster presentations lift at the beginning of the session in which the poster is presented. If a study to be presented at CROI 2019 is included in an official CROI press conference and that press conference takes place before the official presentation of the study at the conference, the embargo lifts at the conclusion of the press conference in which the study is featured.

CROI embargo policies apply to any public dissemination of research information presented at the conference, including electronic publications (eg, blogs) or social media (eg, Facebook, Twitter). No public dissemination of research information from the conference is permitted prior to the lifting of the conference embargo. Individuals or organizations that violate the conference embargo policy may have their conference credentials revoked and may forfeit the opportunity to participate in future conferences.

Welcome Reception

All registered CROI attendees are invited to join us for a Welcome Reception immediately following the Opening Session on Monday evening. The reception will be held at the WSCC.

This Welcome Reception will offer attendees the opportunity to network with colleagues. Light hors d'oeuvres will be served. Each attendee will be given 2 drink tickets with their registration materials to be used for alcoholic or nonalcoholic beverages.

Meals

Morning coffee and a light continental breakfast will be available to conference registrants from 7:30 AM to 8:30 AM, Tuesday, Wednesday, and Thursday, in the registration area. An afternoon snack break will be available at 2:30 PM in the Poster Hall. Attendees are on their own for all other meals, including lunch and dinner, each day. Below is a list of food service options located in the WSCC or within a short walking distance.

Food Service at the Convention Center

| | |
|------------------------------|-------------------------------------|
| Cyber Dogs — Internet Café | 820 Pike Street — Pan Asian Cuisine |
| Unconventional Pizza & Salad | Espresso Caffé Dior |
| Moby's Restaurant and Lounge | Crêpes Voilà |
| The Juicy Café | Wild Rye Café Bakery |
| Subway Sandwiches | Tully's Coffee |

Food Service Within 4 Blocks of the Convention Center

| | | | |
|--|----------------------|--------------|-------------------------|
| Blueacre Seafood | 1700 7th Ave | 206-659-0737 | blueacreseafood.com |
| Blue C Sushi | 1510 7th Ave | 206-467-4022 | bluecsushi.com |
| Café Yumm! | 717 Pine St | 206-624-9866 | cafeyummm.com |
| Daily Grill | 629 Pike St | 206-624-8400 | dailygrill.com |
| Dragonfish Asian Café | 722 Pine St | 206-467-7777 | dragonfishcafe.com |
| FareStart | 700 Virginia St | 206-267-7606 | farestart.org |
| Frolik Kitchen / Cocktails | 1415 5th Avenue | 206-971-8010 | frolik.motifseattle.com |
| Gameworks | 1511 7th Ave | 206-521-0951 | gameworks.com |
| Gordon Biersch Brewery Restaurant | 600 Pine St, Ste 401 | 206-405-2707 | gordonbiersch.com |
| Homegrown Sustainable Sandwich Shop | 1531 Melrose Market | 206-682-0935 | eathomegrown.com |
| Il Fornaio | 600 Pine St, Ste 132 | 206-264-0994 | ilfornaio.com |
| Juicy Café | 800 Pike Street | 206-447-6960 | www.thejuicycafe.com |
| Li'l Woody's | 1211 Pine Street | 06-457-4148 | www.lilwoodys.com |
| Loulay Kitchen & Bar | 600 Union Street | 206-402-4588 | thechefinthehat.com |
| Mamnoon | 1508 Melrose Avenue | 206-906-9606 | mamnoonrestaurant.com |

Restaurants within 4 Blocks of the Convention Center (continued)

| | | | |
|--|----------------------|--------------|--------------------------|
| Masala Grill | 820 Pine Street | 206-467-7272 | masalagrillseattle.com |
| MOD Superfast Pizza | 1302 6th Ave | 206-332-0200 | modsuperfast.com |
| Morton's Steakhouse | 1511 6th Ave | 206-223-2751 | mortons.com |
| Nordstrom Flagship Store: Dining | 500 Pine Street | 206-628-2111 | www.nordstrom.com |
| NYC Hyatt Deli Market | 1520 7th Ave | 206-682-7011 | |
| Palomino | 6th and Union | 206-623-1300 | r-u-i.com |
| Pike Place Chowder Pacific Place | 600 Pine St, Ste 404 | 206-838-5680 | pikeplacechowder.com |
| Potbelly Sandwich Shop | 1429 4th Ave | 206-623-0099 | potbelly.com |
| RN74 | 1425 4th Ave | 206-456-7474 | michaelmina.net |
| Rock Bottom Restaurant | 1333 5th Ave | 206-623-3070 | rockbottom.com |
| Ruth's Chris Steak House | 727 Pine St | 206-624-8524 | ruthschris.com |
| Serious Pie on Pike | 1124 Pike Street | 206-923-8012 | |
| Soup's On! | 1420 5th Ave | 206-625-9976 | soupsonusa.com |
| Starbucks Coffee Company | 721 Pike Street | 206-774-1234 | www.starbucks.com |
| Stateside | 300 E Pike Street | 206-557-7273 | statesideseattle.com |
| Sullivan's Steakhouse | 612 Union St | 206-494-4442 | sullivansteakhouse.com |
| Tango Restaurant & Lounge | 1100 Pike St | 206-583-0382 | tangorestaurant.com |
| Tap House Grill | 1506 6th Ave | 206-816-3314 | taphousegrill.com |
| Terra Plata | 1501 Melrose Ave | 206-325-1501 | www.terraplata.com |
| Thai Ginger | 600 Pine St | 206-749-9100 | www.thaiginger.com |
| The Capital Grille | 1301 4th Ave | 206-382-0900 | thecapitalgrille.com |
| The Cheesecake Factory | 700 Pike St | 206-652-5400 | thecheesecakefactory.com |
| The Elephant and Castle Pub & Restaurant | 1415 Fifth Ave | 206-624-9977 | www.elephantcastle.com |
| Toss'd Custom Salads | 1420 5th Ave | 206-682-6700 | |
| Tully's Coffee | 800 Pike Street | 800-MY-TULLY | tullyscoffeeshops.com |
| Urbane | 1635 8th Ave | 206-676-4600 | olive8.hyatt.com |
| Veggie Grill | 1427 4th Ave | 206-624-1332 | veggiegrill.com |
| Wild Rye Café Bakery | 806 Pike St | 206-694-5049 | wildryecafe.com |

Overflow Accommodations for Oral Sessions

There is a simultaneous overflow area located in Room 611-612. There are 6 screens, and each will be live streaming one of the concurrent oral sessions (Oral Abstracts, Themed Discussions, and Symposia). Headsets with an audio switch will be available for easy transitioning between the concurrent sessions.

Overflow monitors for individual session rooms will become available as needed. CROI staff will direct you to these locations.

Mobile App

To access the CROI Mobile App, use your reference number (on your name badge) and the email address you used to register for CROI.

The CROI 2019 Mobile App has many features to enhance your conference experience, including to:

- View abstracts
- Find information about speakers and other CROI attendees
- Create a personal calendar of the sessions you plan to attend
- E-mail session notes

- Receive the latest changes to the CROI program
- View electronic posters and video descriptions of presentations

The Mobile App is compatible with iOS and Android devices. Search “CROI 2019” in your mobile device App store. Access is restricted to registered attendees. Your log-in information and password are provided with the registration materials.

Video Upload

Poster presenters have the opportunity to upload a video of up to 3 minutes to describe their research findings and conclusions. The video, as well as the electronic version of your poster, will be available to registered CROI attendees on the CROI Mobile App during the conference. In addition, the video and electronic poster will be publicly available on the CROI website after the meeting to serve as important enduring educational resources.

Website

For additional information about the conference and to access electronic materials please visit the website at www.CROIconference.org.

The final Abstract eBook (flip book and PDF versions) will be available for public download following the conference. Abstracts from CROI 2019 can be viewed and downloaded in the searchable database during the conference. Abstracts and electronic posters from CROI 2014, 2015, 2016, 2017, and 2018 are available at www.CROIconference.org/abstracts/search-abstracts/

USB Flash Drive

Any registrant who purchased a **USB flash drive** with the Abstract eBook preloaded onto it will receive it in their welcome packet at registration. Abstracts can also be found in the **Abstract eBook** and searchable database on the CROI website after the session in which the abstract is presented.

Webcasts

Plenaries, symposia, oral abstract sessions, and themed discussions are available as webcasts and are available within 24 hours of the end of the relevant session. Webcasts are also available as streaming videos for the Apple iPad and iPhone.

Visit www.CROIconference.org or www.CROIwebcasts.org to access the CROI webcasts.

Affiliated and Proximate Activities Policies

The goal of CROI is to promote meaningful, high-level scientific interchange of ideas and debate in order to find better ways to prevent, treat, and cure HIV/AIDS. In keeping with this goal, organizations (commercial companies and their agents, not-for-profit groups, government agencies, etc) have been approved to host Affiliated Activities occurring outside CROI session times. Affiliated Activities are not sponsored by, endorsed by, or supported by the IAS—USA, the CROI Foundation, or CROI 2019.

If an affiliated activity is found to have violated the Guidelines for Affiliated Activities, the sponsoring organization, the supporting organization, and the organizer of the meeting may be prohibited from holding an Affiliated Activity at future CROI conferences and may have their current registration revoked. Noncompliance may be subject to fines and damages, and could negatively impact the registration status and attendance of those attending an unapproved affiliated activity.

If you have organized a meeting or activity that includes CROI attendees, as described in the Affiliated Activity guidelines, and have not completed the Affiliated Activity application, please see an IAS—USA staff member in the IAS—USA office (Room 603) for assistance.

In the spirit of CROI and the goal of promoting scientific collaboration among colleagues, if you are invited to or are attending a meeting or activity that you feel may not have been approved by CROI, please contact an IAS—USA staff member in the IAS—USA office.

WiFi Access at the Conference

Complimentary Wi-Fi access is provided at the WSCC. Network information is as follows:

Network name: **CROI2019**

The Wi-Fi password will change daily to prevent devices from automatically connecting to the network. Limiting the number of concurrent devices will assist in maximizing the internet speeds for those devices actively in use. The password for each day of the conference are listed below, and are **case sensitive**.

Monday password: **monday2019**

Tuesday password: **tuesday2019**

Wednesday password: **wednesday2019**

Thursday password: **thursday2019**

If you are having issues with Wi-Fi access, please contact an IAS–USA staff member. Additional Internet hotspots not located in the session rooms are listed in the Convention Center map on the back of the Program.

Conference Badges

Badge pickup is available at the registration lobby; please bring government-issued photo identification that clearly shows your name. The CROI badge must be worn at all times during the conference in order to gain entry to all official meeting activities, including the poster sessions. Attendees will not be admitted into the venue without their CROI badge. **THE CROI BADGE MAY ONLY BE USED BY THE PERSON STATED ON THE BADGE AND CANNOT BE TRANSFERRED OR SHARED WITH OTHERS. THE USE OF ANOTHER INDIVIDUAL'S BADGE OR GIVING YOUR BADGE TO SOMEONE ELSE TO GAIN ACCESS TO THE CONFERENCE IS STRICTLY PROHIBITED AND IS A VIOLATION OF CROI POLICIES.**

DO NOT LOSE YOUR BADGE. Payment of US \$850 will be required to replace a lost badge.

Child Care

Out of respect for the presenters and conference attendees, children are not permitted in meeting rooms, including the poster area. If you require child care services, you may refer to the following resources suggested by local hosts. You may also contact the concierge of your hotel.

Annie's Nannies, Inc.

www.aniseattle.com

Phone: (206) 784-8462

Best Sitters, Inc.

www.bestsittersinc.com

Phone: (206) 682-2556

Poppy

www.meetpoppy.com

Please note, this CROI does not endorse any of these services. List is provided as a courtesy only.

Conference Etiquette

Please ensure all mobile devices are turned off or set on SILENT mode in session rooms. In consideration for the work of the presenters at CROI and the CROI copyright policy, attendees are not allowed to photograph posters, record parts of talks, or post data without the presenter's consent.

CROI HOTELS

CROI 2019 hotels are listed below. For more detailed housing information, please visit the CROI 2019 conference website: www.CROIconference.org/housing. Conference attendees are required to stay in one of the official conference hotels. The few exceptions to this include registrants who live in the Seattle area (ie, within a 50-mile radius of the Washington State Convention Center) and registrants who are sharing a room with an approved CROI attendee with accommodations booked via the CROI housing system.

Crowne Plaza Seattle Downtown

1113 6th Avenue
Seattle, WA 98101
Phone: +1 206 464-1980

Embassy Suites Pioneer Square

255 S. King Street
Seattle, WA 98104
Phone: +1 206 859-4400

The Fairmont Olympic Hotel

411 University Street
Seattle, WA 98101
Phone: +1 206 621-1700

Grand Hyatt Seattle

721 Pine Street
Seattle, WA 98101
Phone: +1 206 774-1234

Hilton Seattle

1301 6th Avenue
Seattle, WA 98101
Phone: +1 206 624-0500

***Homewood Suites**

1011 Pike Street
Seattle, WA 98101
Phone: +1 206 682-8282

***Hotel Max**

620 Stewart Street
Seattle, Washington
Phone: +1 206 728-6299

***Hotel Monaco**

1101 4th Avenue
Seattle, WA 98101
Phone: +1 206 621-1770

***Hotel Theodore**

1531 7th Avenue
Seattle, WA 98101
Phone: +1 206 621-1200

Mayflower Park Hotel

405 Olive Way
Seattle, WA 98101
Phone: +1 206 623-8700

Motif Seattle

1415 5th Avenue
Seattle, WA 98101
Phone: +1 206 971-8000

Hyatt at Olive 8

1635 8th Avenue
Seattle, WA 98101
Phone: +1 206 685-1234

Renaissance Seattle Hotel

515 Madison Street
Seattle, WA 98104
Phone: +1 206 583-0300

Sheraton Grand Seattle

1400 6th Avenue
Seattle, WA 98101
Phone: +1 206 621-9000

W Seattle

1112 4th Avenue
Seattle, WA 98101
Phone: +1 206 264-6000

***Warwick Seattle**

401 Lenora Street
Seattle, WA 98121
Phone: +1 206 443-4300

The Westin Seattle

1900 5th Avenue
Seattle, WA 98101
Phone: +1 206 728-1000

*Hotels past January 31, 2019 are not reflected in the map on the following page.



CONFERENCE SERVICES

| Services | Location | Hours | |
|---|------------------------------------|------------------|-------------------|
| Seattle Visitor Center and Concierge Services | Upper Pike St. Lobby Level 1 | Monday to Friday | 9:00 AM – 5:00 PM |

Note: Full-service concierge assistance, including maps, guides, tickets, restaurant reservations, tours, ground transportation, and personal services is available.

| | | | |
|--------------------|--------------------|-------------------------|--------------------|
| Bag and Coat Check | Hall 4C Level 4 | Monday: | 8:00 AM – 10:00 PM |
| | | Tuesday: | 7:30 AM – 7:00 PM |
| | | Wednesday and Thursday: | 7:30 AM – 6:30 PM |

Note: Bag and coat check are free of charge.

| | | | |
|------------|-------------------------|----------------------|-------------------|
| Cyber Cafe | 4D Skybridge Level 4 | Sunday: | 3:00 PM – 5:00 PM |
| | | Monday to Wednesday: | 7:30 AM – 7:00 PM |
| | | Thursday: | 7:30 AM – 6:00 PM |

Note: Computers with Internet access are available for webcasts, abstract searches, and messages.

| | | | |
|--------------|---------------------|----------------------|--------------------|
| Media Center | Room 400 Level 4 | Monday: | 10:00 AM – 7:00 PM |
| | | Tuesday to Thursday: | 8:00 AM – 6:30 PM |

Note: There is no on-site press registration. Registered press can pick up press kits and obtain location for press conferences at this location.

| | | | |
|--------------------------|---------|------------|-------------------|
| Badge Pickup | Hall 4C | Sunday: | 3:00 PM – 6:00 PM |
| Attendee Services | Level 4 | Monday: | 7:00 AM – 7:00 PM |
| Housing Information | | Tuesday: | 7:00 AM – 6:00 PM |
| Scholarship Badge Pickup | | Wednesday: | 8:00 AM – 6:00 PM |
| Media Badge Pickup | | Thursday: | 8:00 AM – 6:00 PM |

Note: Badges and conference materials can be picked up at this location.

| | | | |
|--------------------|---------------------|---------------------|-------------------|
| Speaker Ready Room | Room 620 Level 6 | Sunday: | 3:00 PM – 6:00 PM |
| | | Monday to Thursday: | 6:00 AM – 6:00 PM |

Note: Oral abstract, invited, and themed discussion session speakers must drop off presentations at least 24 hours before their presentation.

Poster presenters must submit an electronic version of their poster for placement on the CROI website before their assigned session.

| | | | |
|------------------------------|---------------------|----------------------|-------------------|
| Personal Considerations Room | Room 507 Level 5 | Sunday: | 3:00 PM – 6:00 PM |
| | | Monday: | 9:00 AM – 7:00 PM |
| | | Tuesday to Thursday: | 8:00 AM – 6:00 PM |

Note: The Personal Considerations Room is a room set aside for those who require a short-term private space for personal health needs. Use of this room is available on a first-come, first-served basis.

| | | | |
|-------------------|---------------------|----------------------|-------------------|
| New Mother's Room | Room 416 Level 4 | Sunday: | 3:00 PM – 6:00 PM |
| | | Monday: | 9:00 AM – 7:00 PM |
| | | Tuesday to Thursday: | 8:00 AM – 6:00 PM |

Note: The New Mother's Room is a room set aside for nursing mothers who require a short-term private room. Use of this room is available on a first-come, first-served basis.

ABSTRACT PROCESS

Scientific Categories

- A. Virology
- B. Pathogenesis: Human Studies and Animal Models
- C. HIV-Associated Tumor Viruses
- D. Host Immune Responses to Infection, Vaccines, and Immunotherapy
- E. HIV Reservoirs, Latency, and All Curative Strategies Including Therapeutic Vaccines and Gene Therapy
- F. Neuropathogenesis and Neurologic Complications
- G. Clinical Pharmacology
- H. Antiretroviral Therapy: Pre-Clinical Data, Randomized Trials, Efficacy and Effectiveness Studies
- I. HIV Drug Resistance
- J. HIV Diagnostics
- K. Hepatitis Viruses and Liver Complications
- L. AIDS-Related Malignancies
- M. Cardiovascular Complications of HIV Infection and Antiretroviral Therapy
- N. Other Complications of HIV Infection and Antiretroviral Therapy
- O. Tuberculosis and Other Opportunistic Infections
- P. Maternal and Fetal HIV
- Q. Pediatrics and Adolescents
- R. Epidemiology
- S. Testing
- T. Prevention Interventions
- U. Contraception, Sexually Transmitted Infections, and Reproductive Health
- V. Implementation and Scale-Up of Treatment and Care
- W. Population and Cost Modeling

Abstract Content

Author names, institutions, titles, and abstracts in the Abstract eBook and other materials are presented as submitted by the corresponding author.

Abstract Review Process

The PC and a panel of volunteer external reviewers reviewed more than 2000 submitted abstracts. Each abstract was reviewed by 5 to 10 reviewers selected for each abstract category based upon their individual expertise.

PC members and external experts in the field reviewed the abstracts for the quality and originality of the work and scored them numerically. All reviewers were instructed to abstain from scoring any abstract on which they are an author or coauthor, have a financial or personal conflict of interest, or do not have the appropriate expertise to evaluate. Scores ranged from 1 (definite oral presentation) to 5 (rejected).

Scores for each abstract were averaged and the standard deviation was calculated to assess variability. If variability was high, outlier scores were identified and censored. Abstracts with high variability in scores were discussed individually during a series of conference calls for each scientific category. Abstracts were accepted for oral presentations, for poster presentations, or rejected. Late-breaking abstract reviews included an assessment of the late-breaking nature of the work (distinct from a late submission).

Common Reasons for Abstract Rejection

- Information is not new enough
- Methodology is inadequate or insufficient to support conclusions
- Background does not summarize the hypothesis
- Submission is poorly written
- Abstract is duplicative of other submissions
- Abstract is not appropriate for CROI
- Controls are absent or inadequate
- Statistical evaluation is inadequate or absent
- Summary of essential results is inadequate or absent
- Data are inadequate or insufficient to support conclusions
- Submission reports clinical trial and data from unplanned analysis or incomplete or ongoing studies
- Format does not follow guidelines (eg, section[s] missing, more than 1 graphic, table, or figure submitted)

Statistics for Abstracts

| | |
|---|-------------|
| General abstract submitted | 1859 |
| General abstracts accepted | 992 |
| General oral abstracts | 92 |
| General poster abstracts | 900 |
| Late-breaking abstracts submitted | 189 |
| Late-breaking abstracts accepted | 35 |
| Late-breaking oral abstracts | 18 |
| Late-breaking poster abstracts | 17 |
| Total abstracts submitted | 2048 |
| Total abstract accepted | 1027 |

All Representing Authors on Accepted Abstracts

| Region | N | Percent |
|---------------------------------|-----|---------|
| Africa | 97 | 11 |
| Asia | 19 | 2 |
| Australia | 9 | 1 |
| Europe | 193 | 21 |
| Central and South America | 15 | 2 |
| North America | 584 | 63 |

PRECONFERENCE SESSIONS

MONDAY MARCH 4, 2019

Workshop W-1 PROGRAM COMMITTEE WORKSHOP FOR NEW INVESTIGATORS AND TRAINEES

CME

Room 6AB

9:00 AM – 12:25 PM

Target Audience: This workshop is directed toward new trainees (eg, undergraduate students, graduate students, postdoctoral fellows, and physician fellows) and new investigators (both international and domestic). However, it is open to all CROI attendees.

Level of Knowledge: It is assumed that participants have been conducting active research in the field for less than 3 years.

Objectives: At the completion of the session, participants will be able to:

- Describe the current state of the art of selected areas of HIV basic and clinical research
- List the leading research themes being presented at CROI 2019
- Navigate CROI 2019, maximize the knowledge gained, and interact with research colleagues
- Clarify their individual research interests in relation to the priorities discussed at the workshop and CROI 2019 overall

Conveners

Serena S. Spudich, *Yale University, New Haven, CT, USA*

John W. Mellors, *University of Pittsburgh, Pittsburgh, PA, USA*



1 PROGRAM COMMITTEE WORKSHOP FOR NEW INVESTIGATORS AND TRAINEES



UPDATE ON HIV VIROLOGY

Paul Bieniasz, *The Rockefeller University, New York, NY, USA*



UPDATE ON HIV IMMUNOLOGY

Penelope L. Moore, *University of the Witwatersrand, Johannesburg, South Africa*



UPDATE ON HIV PREVENTION

Sharon L. Hillier, *Magee–Womens Hospital of UPMC, Pittsburgh, PA, USA*

BREAK



UPDATE ON TUBERCULOSIS TREATMENT AND PREVENTION

Constance A. Benson, *University of California San Diego, San Diego, CA, USA*



UPDATE ON HIV CURE

Katharine J. Bar, *University of Pennsylvania, Philadelphia, PA, USA*

Workshop MD LUNCH AND MARTIN DELANEY PRESENTATION
Room 6AB

CME

12:25 PM - 1:45 PM

Description: The Martin Delaney Presentation is held annually during the workshops for New Investigators, International Investigators, and Community Educator Scholars in honor of pioneering HIV/AIDS activist Martin Delaney (1945–2009). It recognizes the important contributions of community advocacy and engagement in research.

Target Audience: This session is directed toward new trainees (eg, undergraduate students, graduate students, postdoctoral fellows, and physician fellows), new investigators (both international and domestic) and community educators. Attendance is mandatory for all scholarship recipients and is open to all CROI attendees.

Level of Knowledge: It is assumed that participants have been conducting active research in the field for less than 1 year.

**2 DISCOVERING THE ART IN SCIENCE (AND MEDICINE):
 THE HUMAN CONNECTION**



Dawn Averitt, *The Well Project, Womens Research Initiative on HIV/AIDS, South Strafford, VT, USA*

Workshop W-2 FRONTIERS IN LABORATORY SCIENCE
Room 606-609

2:00 PM - 4:00 PM

Target Audience: This session is directed to students, researchers, and clinicians who are interested in learning the hot new technologies that are influencing HIV research or hold a substantial potential for research.

Level of Knowledge: It is assumed that the participants are familiar with the main technological and data analysis approaches used in HIV research.

Objectives: After attending this session, learners will be able to:

- Envision novel prospects to engineer the latent virome as a path to functional cure
- Visualize the whole body distribution of the virus reservoir
- Describe emerging flow cytometric tools

Conveners

Galit Alter, *Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, USA*



Frank Kirchhoff, *Ulm University Medical Center, Ulm, Germany*



3 ENGINEERING THE LATENT RESERVOIR

Paula Cannon, *University of Southern California, Los Angeles, CA, USA*



**4 NOVEL IMAGING APPROACHES TO CHARACTERIZE
 AND QUANTIFY VIRAL RESERVOIRS**

Jacob D. Estes, *Oregon Health and Sciences University, Portland, OR, USA*



**5 MORE COLORFUL IMMUNOLOGY: TARGETED
 ISOLATION OF MONOCLONAL ANTIBODIES**

Mario Roederer, *NIH, Bethesda, MD, USA*



Workshop W-3 CLINICAL TRIAL DESIGN AND ANALYSIS

CME

Room 6C

2:00 PM - 4:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in designing or interpreting clinical and epidemiologic studies.

Level of Knowledge: It is assumed that participants are familiar with the basic design of randomized and observational clinical trials and with basic HIV epidemiology.

Objectives: After attending this session, learners will be able to:

- Describe microbiomic data
- Identify how missing data can be managed
- Appreciate novel methods for evaluating and interpreting HIV prevention trials

Conveners

Richard E. Chaisson, *Johns Hopkins University, Baltimore, MD, USA*



Susan P. Buchbinder, *San Francisco Department of Public Health, San Francisco, CA, USA*

6 FELLOW TRAVELERS: INTERPRETING THE IMPACT OF THE MICROBIOME IN CLINICAL INTERVENTION

Adam Burgener, *Public Health Agency of Canada, Winnipeg, MB, Canada*



7 MISSING U: HANDLING AND AVOIDING MISSING DATA IN CLINICAL TRIALS

Heather Ribaud, *Harvard T.H. Chan School of Public Health, Boston, MA, USA*



8 DESIGNING & INTERPRETING HIV PREVENTION TRIALS IN THE ERA OF EFFECTIVE INTERVENTIONS

David Dunn, *University College London, London, UK*



Workshop W-4 INTERACTIVE CASE-BASED WORKSHOP ON HEPATITIS

CME

Room 6E

2:00 PM - 4:00 PM

Target Audience: This session is directed to persons interested in the management of hepatitis C, D, or E viral infections as well as management of NASH.

Level of Knowledge: It is assumed that participants are familiar with the general principles of hepatitis treatment and the medications used as well as the basics of fatty liver disease.

Objectives: At the completion of the session, participants will be able to:

- Diagnose and manage liver disease in HIV coinfection including NASH, hepatitis C, D, and E, and taking care of advanced liver disease stages

Conveners

Marion G. Peters, *University of California San Francisco, San Francisco, CA, USA*

Andri Rauch, *University Hospital Bern, Bern, Switzerland*

**9 INTERACTIVE CASE-BASED WORKSHOP ON LIVER DISEASE****HEPATITIS E: CLINICAL CHALLENGES**

Sven Pischke, *University Hospital Hamburg–Eppendorf, Hamburg, Germany*

**HEPATITIS D: CLINICAL CHALLENGES**

Jeffrey Glenn, *Stanford University, Stanford, CA, USA*

**NASH IN HIV**

Giada Sebastiani, *¹McGill University Health Centre Research Institute, Montreal, QC, Canada*

**RETREATMENT OF HCV IN ADVANCED LIVER DISEASE**

John D. Scott, *University of Washington, Seattle, WA, USA*

OS-1 OPENING SESSION
Auditorium - 4AB

CME

5:00 PM - 7:00 PM

Session Hosts



Richard A. Koup

Vaccine Research Center, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA



Sharon L. Hillier

University of Pittsburgh, Pittsburgh, PA, USA



Elaine J. Abrams

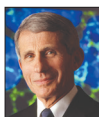
ICAP at Columbia University, New York, NY, USA

Opening Sessions • Monday

SPECIAL PRESENTATION

ENDING THE HIV EPIDEMIC: A PLAN FOR THE UNITED STATES

Anthony S. Fauci, *National Institute of Allergy and Infectious Diseases, National Institute of Health, US Department of Health and Human Services, Bethesda, MD, USA*

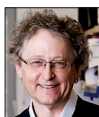


BERNARD FIELDS LECTURE

The Bernard Fields Lecture, named in tribute to the exemplary work of the esteemed microbiologist and virologist Bernard Fields, is given during the Opening Session, usually by a basic scientist recognized for his or her important and relevant contributions to the fields of virology and viral pathogenesis.

10 DISCOVERY AND DEVELOPMENT OF HIV BROADLY NEUTRALIZING ANTIBODIES

Michel Nussenzweig, *The Rockefeller University, New York, NY, USA*



N'GALY-MANN LECTURE

The N'Galy-Mann Lecture recognizes an HIV/AIDS researcher for his or her important and relevant work in the fields of epidemiology or clinical research. The Lecture is named in honor of Drs Bosenge N'Galy and Jonathan Mann for their crucial, pioneering work in HIV science in Africa.

11 THAILAND'S ACHIEVEMENTS IN HIV TREATMENT, PREVENTION, AND CURE RESEARCH

Praphan Phanuphak, *Thai Red Cross AIDS Research Center, Bangkok, Thailand*



The Seattle Men's Chorus With Artistic Director Paul Caldwell will perform during the opening session at CROI.



TUESDAY MARCH 5, 2019

Plenary PL-1 TUESDAY PLENARY SESSION
Auditorium - 4AB

CME

8:30 AM - 9:30 AM

Session Hosts**Sharon L. Hillier**, *University of Pittsburgh, Pittsburgh, PA, USA***Peter W. Hunt**, *University of California San Francisco, San Francisco, CA, USA***12 DENIAL, DOOM, OR DESTINY? RESURGENT STIs IN HIV CARE & PREVENTION**

8:30

Jeanne M. Marrazzo, *University of Alabama at Birmingham, Birmingham, AL, USA***13 INFLAMMATION: TAMING THE FLAMES**

9:00

Irini Sereti, *NIAID, Bethesda, MD, USA***Oral Abstract O-01 AIDS MALIGNANCIES AND KSHV**
Room 606-609

10:00 AM - 12:00 PM

Oral Abstract Moderators**Thomas Schulz**, *Medizinischen Hochschule Hannover, Hannover, Germany***Scott Dryden-Peterson**, *Brigham and Women's Hospital, Boston, MA, USA***14 HPV VACCINE WITH LEEP DID NOT PREVENT RECURRENT CERVICAL HSIL IN HIV-INFECTED WOMEN**

10:00

Cindy Firnhaber, Avril Swarts, Masangu Mulongo, Bridgette Goeieman, Sophie Williams, Simon Levin, Mark Faesen, Pamela Michelow, Timothy Wilkin**15 OPTIMAL LUNG CANCER SCREENING CRITERIA AMONG PERSONS LIVING WITH HIV**

10:15

Subhashini A. Sellers, Andrew Edmonds, Catalina Ramirez, Sushma Cribbs, Igho Ofotokun, Laurence Huang, Alison Morris, Meredith C. McCormack, Ken M. Kunisaki, Maria P. Rivera, M. Brad Drummond, Adaora Adimora**16 HIV IS ASSOCIATED WITH DECREASED BREAST CANCER SURVIVAL: A PROSPECTIVE COHORT STUDY**

10:30

Katrin S. Sadigh, Ryan M. Hodgeman, Neo Tapela, Isaac Nkele, Memory Bvochora-Nsingo, Sebathu Chiyapo, Tlotlo B. Ralefala, Jason A. Efstathiou, Oaitse John, Galaletsang Motswetla, Surbhi Grover, Jerry Younger, Mompoti O. Mmalane, Shahin Lockman, Scott Dryden-Peterson**17 LONG-TERM OUTCOMES OF 58 PATIENTS WITH HIV AND KSHV+ MULTICENTRIC CASTLEMAN DISEASE**

10:45

Ramya Ramaswami, Kathryn Lurain, Priscila H. Gonçalves, Mark Polizzotto, Anaida Widell, Matthew Lindsley, Richard F. Little, Thomas S. Uldrick, Robert Yarchoan**18 REDUCTION OF KAPOSI SARCOMA-ASSOCIATED HERPESVIRUS LATENCY USING CRISPR-CAS9**

11:00

For Yue Tso, John T. West, Charles Wood**19 THE ROLE OF WILMS' TUMOR 1 IN KAPOSI SARCOMA HERPESVIRUS ONCOGENESIS**

11:15

Ayana Morales, Ethel Cesarman, Paul Rubinstein, Warren Phipps

20 LB **QUANTIFICATION OF KSHV DNA AS A DIAGNOSTIC TEST FOR KAPOSI SARCOMA IN AFRICA**
11:30

Aggrey Semeere, Andrea Gardner, Megan Wenger, Priscilla Namaganda, Ryan Snodgrass, Varun Koppa, Esther Freeman, John Ssali, Mwebesa Bwana, Toby Maurer, Robert Lukande, Miriam Laker-Oketta, David Erickson, Ethel Cesarman, Jeffrey Martin

21 **SPECIAL PRESENTATION: TWO NOVEL POTENTIAL THERAPEUTIC TARGETS IN THE KSHV LIFE CYCLE**
11:45

Thomas Schulz

Oral Abstract 0-02 STRATEGIES FOR HIV CURE
Room 6E

10:00 AM - 12:00 PM

Oral Abstract Moderators

Denise C. Hsu, *US Military HIV Research Program, Bangkok, Thailand*

Sarah B. Joseph, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*



22 **TARGETING THE NONCANONICAL NF-KB PATHWAY REVERSES SIV LATENCY**
10:00

Maud Mavigner, Richard M. Dunham, Alyssa Brooks, Cristin Galardi, Gavin C. Sampey, Steven E. Bosinger, Thomas Vanderford, David M. Margolis, Guido Silvestri, Ann Chahroudi

23 **NONSUPPRESSIBLE VIREMIA ON ART FROM LARGE CELL CLONES CARRYING INTACT PROVIRUSES**
10:15

Elias K. Halvas, Kevin Joseph, Leah D. Brandt, Johannes C. Botha, Michele Sobolewski, Jana L. Jacobs, Brandon F. Keele, Mary F. Kearney, John M. Coffin, Jason W. Rausch, Shuang Guo, Xiaolin Wu, Stephen H. Hughes, John W. Mellors

24 **EX VIVO AND IN VIVO EDITING OF THE SIV GENOME IN NONHUMAN PRIMATES BY CRISPR-CAS9**
10:30

Tricia H. Burdo, Pietro Mancuso, Rafal Kaminski, Jennifer Gordon, Binhua Ling, Andrew MacLean, Kamel Khalili

25 **DELAYED VIRAL REBOUND DURING ATI AFTER INFUSION OF CCR5 ZFN-TREATED CD4 T CELLS**
10:45

Pablo Tebas, Julie Jadowsky, Pamela Shaw, Gary Lee, Dale Ando, Sukyung Kim, SoeYu Naing, Simon Lacey, Bruce L. Levine, Don L. Siegel, Carl H. June, James L. Riley

26 **MULTIDOSE IV ROMIDEPSIN: NO INCREASED HIV-1 EXPRESSION IN PERSONS ON ART, ACTG A5315**
11:00

Deborah McMahon, Lu Zheng, Joshua C. Cyktor, Evgenia Aga, Bernard J. Macatangay, Catherine Godfrey, Michael Para, Ronald T. Mitsuyasu, Joseph Hesselgesser, Curtis Dobrowski, Jonathan Karn, Edward P. Acosta, Rajesh T. Gandhi, John W. Mellors, for the A5315 Team

27 **PEMBROLIZUMAB INDUCES HIV LATENCY REVERSAL IN HIV+ INDIVIDUALS ON ART WITH CANCER**
11:15

Thomas S. Uldrick, Steven Fling, Scott V. Adams, Ajantha Solomon, Priscila H. Gonçalves, Nicolas Chomont, Rob Gorelick, Jeffrey D. Lifson, Robert Yarchoan, Martin "Mac" A. Cheever, Frank Maldarelli, Steven G. Deeks, Sharon R. Lewin, for the DARE and CITN-12 Study Teams

28 LB **POTENT ANTIVIRAL ACTIVITY OF TRISPECIFIC BROADLY NEUTRALIZING HIV ANTIBODIES**

11:30

Amarendra Pegu, Ling Xu, Megan Demouth, Cassandra Almasri, Eun S. Yang, Jason M. Hataye, Mangaiarkarasi Asokan, Wanwisa Promsote, Ronnie R. Wei, Dana M. Lord, Ercole Rao, Jochen Beninga, Zhi-yong Yang, John R. Mascola, Gary Nabel

29 LB **SUSTAINED HIV-1 REMISSION FOLLOWING HOMOZYGOUS CCR5 DELTA32 ALLOGENIC HSCT**

11:45

Ravindra K. Gupta, Sultan Abduljawad, Laura McCoy, H P. Mok, Dimitra Peppas, Helen Lee, Eleni Nastouli, Jonathan Lambert, Matthew Pace, John Frater, Andrew Lever, Simon Edwards, Eduardo Olavarria, Ian Gabriel, for the CHERUB and ICISTEM Study Groups

Oral Abstract O-03 NONCOMMUNICABLE DISEASES IN TREATED HIV Auditorium - 4AB

10:00 AM - 12:00 PM

Oral Abstract Moderators

Janine M. Trevillyan, Monash University, Melbourne, Australia

Anjali Sharma, Albert Einstein College of Medicine, Bronx, NY, USA

**30** **BREAKING BONES IS BAD: INCIDENT FRACTURE AND MORTALITY IN THE HIV OUTPATIENT STUDY**

10:00

Linda Battalora, Carl Armon, Frank J. Palella, Jun Li, Edgar T. Overton, John Hammer, Jack Fuhrer, Richard Novak, John Spear, Kate Buchacz

31 **COPD AND THE RISK FOR MYOCARDIAL INFARCTION BY TYPE IN PEOPLE LIVING WITH HIV**

10:15

Kristina Crothers, Barbara N. Harding, Bridget M. Whitney, Joseph Delaney, Robin M. Nance, Susan Heckbert, Matthew Budoff, W. C. Mathews, Joseph J. Eron, Richard D. Moore, Michael J. Mugavero, Michael Saag, Mari Kitahata, Heidi M. Crane, for the CNICS Cohort

32 **SUDDEN CARDIAC DEATH AMONG HIV-INFECTED AND -UNINFECTED VETERANS**

10:30

Matthew Freiberg, Meredith S. Duncan, Suman Kundu, Asri Mumpuni, Emily Epstein, Annie Bedigian, Amy C. Justice, Eric Vittinghoff, Zian H. Tseng, for the Veterans Aging Cohort Study Investigators

33 **HIV POST SCD STUDY: 80% HIGHER RATE OF AUTOPSY-DEFINED SUDDEN ARRHYTHMIC DEATH IN HIV**

10:45

Zian H. Tseng, Ellen Moffat, Eric Vittinghoff, Annie Bedigian, Joseph K. Wong, Philip Ursell, Andrew Connolly, Jeffrey Olgin, Priscilla Hsue

34 LB **CABOTEGRAVIR IS NOT ASSOCIATED WITH WEIGHT GAIN IN HIV-NEGATIVE INDIVIDUALS: HPTN 077**

11:00

Raphael J. Landovitz, Sahar Z. Zangeneh, Gordon Chau, Beatriz Grinsztejn, Joseph J. Eron, Halima Dawood, Manya Magnus, Albert Y. Liu, Ravindre Panchia, Mina C. Hosseinipour, David A. Margolis, Adeola Adeyeye, Marybeth McCauley, Myron S. Cohen, Judith S. Currier

35 **ASSESSING THE PROBIOTIC EFFECT IN TREATED HIV: RESULTS OF ACTG A5350**

11:15

Edgar T. Overton, Eunice Yeh, Rachel Presti, Jeffrey Jacobson, Brett Williams, Cara Wilson, Alan Landay, Jason Brenchley, Michael Dube, Carl Fichtenbaum, Netanya S. Utay, Douglas W. Kitch, Adriana Andrade, for the ACTG A5350 Study Team

36 11:30 FACTOR X INHIBITION REDUCES COAGULATION BUT NOT INFLAMMATION IN PERSONS WITH HIV

Jason V. Baker, Julian Wolfson, Tess Peterson, Kelly Garcia-Myers, Jonathan Klaphake, Micah Mooberry, Matthew Gissel, Kathleen Brummel-Ziedins, Irini Sereti, Nigel Key, Russell Tracy

37 LB 11:45 SAFETY, TOLERABILITY AND IMMUNOLOGIC ACTIVITY OF RUXOLITINIB ADDED TO SUPPRESSIVE ART

Vincent C. Marconi, Carlee Moser, Christina Gavegnano, Athe Tsibris, Amy Kantor, Edgar T. Overton, Charles W. Flexner, Peter W. Hunt, Rafick-Pierre Sekaly, Carlos del Rio, Michael M. Lederman, Randall Tressler, Steven G. Deeks, Jeffrey J. Lennox, Raymond F. Schinazi

Oral Abstract 0-04 CRITICAL ISSUES IN MATERNAL AND PEDIATRIC HEALTH

Room 6C

10:00 AM - 12:00 PM

Oral Abstract Moderators

Sharon Nachman, *Stony Brook University, Stony Brook, USA*

Bolanle Oyeledun, *Centre for Integrated Health Programs, Abuja, Nigeria*



39 LB 10:00 RANDOMIZED TRIAL OF RALTEGRAVIR-ART VS EFAVIRENZ-ART WHEN INITIATED DURING PREGNANCY

Mark Mirochnick, David E. Shapiro, Leavitt Morrison, Lisa Frenkel, Nahida Chakhtoura, George K. Siberry, Brookie Best, Maria Leticia S. Cruz, Blandina T. Mmbaga, Jose Henrique S. Pilotto, Avy Violari, Sinart Prommas, Esau Joao, for the NICHD P1081 Protocol Team

40 LB 10:15 RCT OF DOLUTEGRAVIR VS EFAVIRENZ-BASED THERAPY INITIATED IN LATE PREGNANCY: DOLPHIN-2

Kenneth Kintu, Thoko Malaba, Jesca Nakibuka, Christiana Papamichael, Angela Colbers, Kay Seden, Victoria Watson, Helen Reynolds, Duolao Wang, Catriona Waitt, Catherine Orrell, Mohammed Lamorde, Landon Myer, **Saye Khoo**, for the DolPHIN-2 Study Group

41 10:30 MATERNAL HBV VIREMIA IS ASSOCIATED WITH ADVERSE INFANT OUTCOMES IN HIV/HBV WOMEN

Debika Bhattacharya, Rong Guo, Chi-hong Tseng, Lynda Emel, Ren Sun, Shih-Hsin Chiu, Lynda Stranix-Chibanda, Tsungai Chipato, Neaka Z. Mohtashemi, Kenneth Kintu, Karim P. Manji, Dhayendre Moodley, Chloe Thio, Yvonne Maldonado, Judith S. Currier

42 10:45 IMPACT OF IMPROVED NUTRITION/SANITATION ON NEURODEVELOPMENT OF HIV-EXPOSED CHILDREN

Robert Ntozini, Jaya Chandna, Ceri Evans, Gwendoline Kandawasvika, Bernard Chasekwa, Florence D. Majo, Naume Tavengwa, Kuda Mutasa, Batsirai Mutasa, Lawrence Moulton, Jean Humphrey, Andrew Prendergast, Melissa Gladstone, for the SHINE Trial Team

43 11:00 UNIQUE IMMUNOLOGICAL AND VIROLOGICAL FEATURES OF EARLY TREATED HIV-INFECTED NEWBORNS

Pilar Garcia Broncano, Kevin Einkauf, Ce Gao, Shivaali Maddali, Chenyang Jiang, Kenneth Maswabi, Gbolahan Ajibola, Sikhulile Moyo, Terence Mohammed, Thabani Ncube, Joseph Makhema, Kathleen M. Powis, Daniel R. Kuritzkes, Roger L. Shapiro, Mathias Lichterfeld

- 44**
11:15 **NEONATAL ART < 7 DAYS VS 7-28 DAYS REDUCED TIME TO SUPPRESSION**
Alfredo Tagarro, **Sara Dominguez Rodriguez**, Thanyawee Puthanakit, Paolo Palma, Caroline Foster, Thidarat Jupimai, Nicola Cotugno, Jintanat Ananworanich, Santiago Jimenez de Ory, Paola Zangari, Maria Luisa Navarro, Paolo Rossi, Eleni Nastuoli, Carlo Giaquinto, Pablo Rojo Conejo, for the EPIICAL Consortium
- 45**
11:30 **SAFETY AND PHARMACOKINETICS OF MONOCLONAL ANTIBODY, VRC01LS, IN HIV-EXPOSED NEWBORNS**
Elizabeth J. McFarland, Coleen K. Cunningham, Edmund V. Capparelli, Petronella Muresan, Elizabeth Smith, Charlotte Perlowski, Leavitt Morrison, Patricia Morgan, Adrian B. McDermott, Rohan Hazra, John R. Mascola, Barney S. Graham, for the IMPAACT P1112 Protocol Team
- 46**
11:45 **BICTEGRAVIR/FTC/TAF SINGLE-TABLET REGIMEN IN ADOLESCENTS & CHILDREN: WEEK 48 RESULTS**
Aditya Gaur, Mark Cotton, Carina Rodriguez, Eric J. McGrath, Elizabeth Hellstrom, Afaaf Liberty, Eva Natukunda, Pope Kosalaraksa, Kulkanya Chokeyhaibulkit, Heather Maxwell, Sophia R. Majeed, Danielle Porter, Pamela Wong, Hiba Graham, Cheryl Pikora

Oral Abstract 0-05 STRANGE BEDFELLOWS: STIs, CONTRACEPTION, AND TRIALS OF HIV TESTING

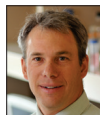
Room 6AB

10:00 AM - 12:00 PM

Oral Abstract Moderators

Peter L. Anderson, *University of Colorado Anschutz Medical Campus, Aurora, CO, USA*

Flavia K. Matovu, *Makerere University—Johns Hopkins University Research Collaboration, Kampala, Uganda*



- 47**
10:00 **INCIDENT SYPHILIS RATES AND PREDICTORS IN US WOMEN WITH HIV, 2005-2016**
Jodie Dionne-Odom, Andrew Westfall, Michael J. Mugavero, Sonia Napravnik, Julia C. Dombrowski, Mari Kitahata, Richard D. Moore, Benigno Rodriguez, Maile Y. Karris, Elvin Geng, Kenneth H. Mayer, Jeanne M. Marrazzo
- 48**
10:15 **PREPARING FOR PrEP IN ENGLAND: PREVALENCE AND INCIDENCE OF HIV AND BACTERIAL STIs**
Dana Ogaz, Ada R. Miltz, Sarika Desai, John Saunders, Andre Charlett, Owen N. Gill, Hamish Mohammed
- 49**
10:30 **EXPANDING TESTING STRATEGIES IN PARIS: A FREE POSTAL COMPREHENSIVE STI TEST KIT**
Delphine Rahib, **Heloise M. Delagreverie**, Iris Bichard, Audrey Gabassi, Nicolas Guigue, Marie-Laure Chaix Baudier, Beatrice Bercot, Constance Delaugerre, Nathalie Lydié
- 50**
10:45 **RANDOMIZED CONTROLLED TRIAL OF INTRAUTERINE DEVICE SAFETY IN WOMEN LIVING WITH HIV**
Catherine S. Todd, Heidi Jones, Nontokozo Langwenya, Donald R. Hoover, Greg Petro, Landon Myer
- 51**
11:00 **DOUBLE-DOSE LEVONORGESTREL IMPLANT DOES NOT FULLY OVERCOME INTERACTION WITH EFAVIRENZ**
Kimberly K. Scarsi, Lauren Cirrincione, Shadia Nakalema, Kristin Darin, Ian Musinguzi, Isabella Kyohairwe, Pauline Byakika-Kibwika, Andrew Owen, Lee Winchester, Anthony Podany, Susan E. Cohn, David Back, Courtney V. Fletcher, Marco Siccardi, Mohammed Lamorde

52 11:15 PHARMACOGENETICS WORSENS AN ADVERSE ANTIRETROVIRAL-HORMONAL CONTRACEPTIVE INTERACTION

David Haas, Yoninah S. Cramer, Catherine Godfrey, Susan L. Rosenkranz, Francesca Aweeka, Baiba Berzins, Robert Coombs, Kristine Coughlin, Laura E. Moran, David Gingrich, Carmen D. Zorrilla, Paxton Baker, Susan E. Cohn, Kimberly K. Scarsi, for the AIDS Clinical Trials Group A5316 Study Team

53 LB 11:30 POINT-OF-CARE VIRAL LOAD TESTING IMPROVES HIV VIRAL SUPPRESSION AND RETENTION IN CARE

Paul K. Drain, Jienchi Dorward, Lauren Violette, Justice Quame-Amaglo, Katherine Thomas, Natasha Samsunder, Hope Ngobese, Koleka Mlisana, Pravi Moodley, Deborah J. Donnell, Ruanne V. Barnabas, Kogieleum Naidoo, Salim Abdool Karim, Connie L. Celum, Nigel Garrett

54 LB 11:45 EFFECT OF THE HITS INTERVENTION ON HIV TESTING UPTAKE AMONG MEN IN SOUTH AFRICA

Frank Tanser, **Hae-Young Kim**, Thulile Mathenjwa, Maryam Shahmanesh, Janet Seeley, Philippa Matthews, Sally Wyke, Nuala McGrath, Benn Sartorius, H. Manisha N. Yapa, Thembelihle Zuma, Anya Zeitlin, Ann Blandford, Adrian Dobra, Till Bärnighausen

**Themed Discussion TD-01 KSHV VIROLOGY AND PATHOGENESIS
Room 615-617 1:30 PM - 2:30 PM**

Themed Discussion Leader

Blossom Damania, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*



270 PRIMARY ROLE OF KSHV IN PATHOGENESIS OF ENDEMIC AND EPIDEMIC KAPOSI SARCOMA

Salum J. Lidenge, For Yue Tso, Andrew V. Kossenkov, Owen Ngalamika, John R. Ngowi, Yasaman Mortazavi, Eun Hee Kwon, Danielle M. Shea, Veenu Minhas, Julius Mwaiselage, Paul M. Lieberman, Charles Wood, John T. West

271 METABOLIC ABNORMALITIES IN CD8 T CELLS FROM HIV+ INDIVIDUALS WITH KAPOSI SARCOMA

Genevieve T. Clutton, Michael McGrath, Toby Maurer

272 SINGLE CELL EVALUATION OF KAPOSI SARCOMA TUMORS REVEALS COMPLEX IMMUNE INFILTRATE

Warren Phipps, David Coffey, Yuexin Xu, James Kafeero, Peter Mooka, Lazarus Okoche, Diana Basemera, Britta Flach, Andrea Towler, Edus H. Warren

273 NEW VARIANT OF KAPOSI SARCOMA-ASSOCIATED HERPESVIRUS IN MEN WHO HAVE SEX WITH MEN

Aude Jary, Valentin Leducq, Nathalie Desiré, Romain Palich, Veronique Joly, Ana Canestri, Adélie Gothland, Sidonie Lambert, Pierre-Marie Girard, Corinne Amiel, Diane Descamps, Jean-Philippe Spano, Christine Katlama, Vincent Calvez, Anne-Geneviève Marcelin

269 KAPOSI SARCOMA-ASSOCIATED HERPESVIRUS IN AN HIV-INFECTED COHORT, SOUTH AFRICA

Elizabeth M. Etta, Lufuno G. Mavhandu-Ramarumo, George Gachara, Denise Tebit, Wendell Miley, Vickie Marshall, Denise Whitby, Pascal O. Bessong

Themed Discussion TD-02 STRUCTURE AND LOCATION OF PROVIRUSES ON ART

Room 606-609

1:30 PM - 2:30 PM

Themed Discussion Leader

Sarah Palmer, *The Westmead Institute for Medical Research, Westmead, NSW, Australia*



338 A METHOD TO DETERMINE BOTH THE INTEGRATION SITES AND SEQUENCES OF HIV-1 PROVIRUSES

Sean Patro, Leah D. Brandt, Michael J. Bale, Elias K. Halvas, Michele Sobolewski, Jenna Hasson, Aurelie Niyongabo, Xiaolin Wu, Shuang Guo, Steven G. Deeks, Stephen H. Hughes, John M. Coffin, Jason W. Rausch, John W. Mellors, Mary F. Kearney

339 DISTINCT CHROMOSOMAL POSITIONS OF INTACT HIV-1 PROVIRUSES

Kevin Einkauf, Guinevere Q. Lee, Ce Gao, Radwa Sharaf, Xiaoming Sun, Stephane Hua, Samantha M. Chen, Chenyang Jiang, Xiaodong Lian, Fatema Z. Chowdhury, Eric Rosenberg, Tae-Wook Chun, Jonathan Z. Li, Xu G. Yu, Mathias Lichterfeld

340 RELATIONSHIP BETWEEN INTACT HIV-1 PROVIRUSES AND PLASMA REBOUND VIRUSES

Ching-Lan Lu, Joy A. Pai, Lilian Nogueira, Pilar Mendoza, Marina Caskey, Mila Jankovic, Michel Nussenzweig

341 LANDSCAPE OF HIV-1 INTEGRATION SITES IN LYMPHOID TISSUE FROM ART-TREATED INDIVIDUALS

Vincent H. Wu, Christopher L. Nobles, Leticia Kuri Cervantes, Perla Del Río-Estrada, Gustavo Reyes-Terán, Frederic Bushman, Michael R. Betts

342 GENETIC AND AGE DISTRIBUTION OF LATENT HIV SEQUENCES IN CD4+ T-CELL SUBSETS

Rachel Miller, Bradley R. Jones, Olivia Tsai, Bemuluyigza Baraki, Natalie Kinloch, Hanwei Sudderuddin, Hawley Rigsby, Art Poon, Rémi Fromentin, Nicolas Chomont, Jeffrey Joy, **Zabrina Brumme**

Themed Discussion TD-03 LET'S CHECK IN! NEW TOOLS FOR MONITORING ART AND PrEP ADHERENCE

Room 6C

1:30 PM - 2:30 PM

Themed Discussion Leader

Rodolphe Garraffo, *Université de Nice-Sophia-Antipolis, Hôpital Pasteur, CHU de Nice, Nice, France*



461 PI DRUG-LEVEL TESTING AS A SCREENING TOOL FOR DRUG RESISTANCE IN 2ND-LINE ART FAILURE

Lucas E. Hermans, Kim Steegen, Rob ter Heine, Rob Schuurman, Hugo Tempelman, Robert Moraba, Erik Maarseveen, Taryn Pillay, Derryn Legg-Esilva, Jonathan M. Schapiro, David M. Burger, Sergio Carmona, Annemarie Wensing

462 PLASMA EFV AND TFV VS DRIED BLOOD SPOT TFV-DP TO PREDICT VIRAL SUPPRESSION IN WOMEN

Tamsin K. Phillips, Phumla Sinxadi, Elaine J. Abrams, Allison Zerbe, Nai-Chung Hu, Yolanda Gomba, Kirsty Brittain, Jennifer Norman, Lubbe Wiesner, Landon Myer, Gary Maartens

463 TENOFOVIR DIPHOSPHATE IN DRIED BLOOD SPOTS FOLLOWING ESCALATING TAF/FTC DOSING

Jenna Yager, Jose R. Castillo-Mancilla, Mustafa E. Ibrahim, Kristina M. Brooks, Cricket McHugh, Samantha MaWhinney, Mary Morrow, Scott McCallister, Lane R. Bushman, Jennifer J. Kiser, Peter L. Anderson

464 VALIDATION OF A URINE TFV IMMUNOASSAY FOR REAL-TIME PrEP AND ART ADHERENCE TESTING

Monica Gandhi, Peter Bacchetti, Hideaki Okochi, Matthew A. Spinelli, Jared Baeten, Warren Rodrigues, Guohong Wang, Michael Vincent, Rachel W. Kubiak, Yardpiroon Tawon, Virat Klinbuayaem, Pra-ornsuda Sukranchana, Oraphan Siriprakaisil, Tim R. Cressey, Paul K. Drain

465 URINE FTC AND TFV CONCENTRATIONS AS POTENTIAL BIOMARKERS FOR ARV ADHERENCE

Richard Haaland, Tamee Livermont, Jeffrey Fountain, Chuong Dinh, Amy Martin, Davis Lupo, LaShonda Hall, Christopher Conway-Washington, Colleen F. Kelley

Themed Discussion TD-04 WOMEN WITH HIV: ARE OUTCOMES DIFFERENT?

Room 6AB

1:30 PM - 2:30 PM

Themed Discussion Leader

Judith Aberg, *Icahn School of Medicine at Mount Sinai, New York, NY, USA*

**518 IMPORTANT SEX DIFFERENCES IN OUTCOMES FOR INDIVIDUALS PRESENTING FOR THIRD-LINE ART**

Catherine Godfrey, Michael D. Hughes, Justin Ritz, Robert Gross, Robert A. Salata, Rosie Mngqibisa, Carole Wallis, Mumbi Makanga, Marije Van Schalkwyk, Mitch Matoga, Courtney V. Fletcher, Beatriz Grinsztejn, Ann Collier, for the ACTG 5288 Team

516 DEPRESSION IS A STRONGER PREDICTOR OF EXECUTIVE DYSFUNCTION IN HIV+ WOMEN THAN MEN

Leah H. Rubin, Gayle Springer, Eileen Martin, Eric C. Seaberg, Ned Sacktor, Andrew Levine, Victor Valcour, Mary Young, James T. Becker, Pauline M. Maki

517 GENDER AND COINFECTIONS CONTRIBUTE TO IMMUNE ACTIVATION IN TREATED HIV INFECTION

Gwoon Son, Daniel Habermann, Trevor A. Crowell, Allahna L. Esber, Leigh Anne Eller, Michael A. Eller, Ajay Parikh, Yakubu Adamu, Francis Kiweewa, Merlin L. Robb, Nelson L. Michael, Daniel Hoffmann, Christina Polyak, Julie Ake, Hendrik Streeck

519 TENOFOVIR ALAFENAMIDE VS TENOFOVIR DF IN WOMEN: POOLED ANALYSIS OF 7 CLINICAL TRIALS

Melanie Thompson, Indira Brar, Cynthia Brinson, Catherine Creticos, Debbie Hagins, Ellen Koenig, Claudia Martorell, Cristina Mussini, Laura Waters, Susan Guo, Ya-Pei Liu, Lauren L. Temme, Devi SenGupta, Moupali Das

520 EFFECT OF ANTIRETROVIRAL THERAPY AND IMMUNE RECONSTITUTION ON VAGINAL MICROBIOME

Zoe Packman, Cindy M. Liu, David Serwadda, Fred Nalugoda, Maliha Aziz, Alison Abraham, Jessica Proddger, Rupert Kaul, Ronald H. Gray, Aaron Tobian, Thomas C. Quinn, Steven J. Reynolds

Themed Discussion TD-05 THE MASKED MARVELS YOU DON'T WANT TO MEET: SYPHILIS AND LGV

Room 6E

1:30 PM - 2:30 PM

Themed Discussion Leader

Khalil G. Ghanem, Johns Hopkins University, Baltimore, MD, USA



1011 EFFECTIVE TREATMENT OF LYMPHOGANULOMA PROCTITIS WITH EXTENDED AZITHROMYCIN REGIMEN

José L. Blanco, Irene Fuertes, Jordi Bosch, Ana González-Cordón, Esteban Martínez, Andrea Vergara, Teresa Estrach, Jose M. Gatell, Alsina Merçé

1012 ADHERENCE OF HEALTH CARE PROVIDERS TO CDC LUMBAR-PUNCTURE CRITERIA AMONG SYPHILIS/HIV

Barbara L. Henriques, Vivian I. Avelino-Silva, Marilia B. Antonio, Jose E. Vidal

1013 HEARING LOSS IN UNSELECTED INDIVIDUALS WITH SYPHILIS

Meena Ramchandani, Jamie Litvack, Clare Maxwell, Lauren Tantalo, Sharon Sahi, Shelia Dunaway, Christina Marra

1014 COGNITIVE IMPAIRMENT IN INDIVIDUALS WITH SYPHILIS

Kevin Robertson, Haley Mendoza, Clare Maxwell, Shelia Dunaway, Arielle P. Davis, Sharon Sahi, Lauren Tantalo, Jana Zahlan, Sheryl Storey, Christina Marra

1015 RESPONSE TO SYPHILIS TREATMENT: CDC GUIDELINES IN HIV-INFECTED ADULTS ON cART

Melody Ren, Leah Szadkowski, Darrell H. Tan, Sharon Walmsley

Symposium S-1 HIV-ASSOCIATED TUMOR VIRUSES: PARTNERS IN CRIME

CME

Room 6C

4:00 PM - 6:00 PM

Target Audience: This session is directed both to clinicians treating HIV-infected individuals and basic scientists who study viral-host interactions. It is expected that this audience will recognize and have interest in the ongoing problem of HIV-associated cancers, particularly those caused by Kaposi sarcoma-associated herpes virus (KSHV), Epstein-Barr virus (EBV), human papilloma virus (HPV), and hepatitis B (HBV).

Level of Knowledge: It is assumed that the participants will be familiar with the ongoing challenge of HIV-associated cancers, particularly KSHV, cervical and anal cancer, and lymphomas and liver cancer.

Objectives: At the completion of the session, participants will be able to:

- Describe the mechanisms and emerging concepts concerning the links between KSHV, HPV, EBV, and HBV and cancer
- Describe how coinfection of these viruses with HIV is contributing to an ongoing epidemic of cancer in individuals living with HIV
- Appreciate how a basic understanding of tumor viruses is leading to novel interventions to prevent infection or the development of the cancers these viruses cause

Conveners

Thomas Schulz, *Medizinischen Hochschule Hannover, Hannover, Germany*



Jianxin You, *University of Pennsylvania, Philadelphia, PA, USA*

55 MODULATION OF HOST INNATE IMMUNITY BY KSHV

4:00

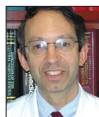
Blossom Damania, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*



56 EBV: IMMUNOPATHOGENESIS AND THE PATH TO AN EBV VACCINE

4:30

Jeffrey Cohen, *NIAID, Bethesda, MD, USA*



57 HPV: NEW INSIGHTS INTO ONCOGENESIS AND OPPORTUNITIES FOR IMMUNE CONTROL

5:00

Denise Galloway, *Fred Hutchinson Cancer Research Center, Seattle, WA, USA*



58 HBV: FROM VIRAL INTEGRATION TO LIVER CANCER, IMPACT ON CURE STRATEGIES

5:30

Fabien Zoulim, *INSERM, Strasbourg, France*



**Symposium S-2 ART AND REPRODUCTION
Room 6E**

CME

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding the current state of knowledge regarding the use of antiretroviral therapy in women of reproductive potential and the potential impacts of antiretrovirals on maternal health and pregnancy outcomes.

Level of Knowledge: It is assumed that the participants have familiarity with issues of HIV treatment and prevention of mother-to-child transmission, as well as basic understandings of the processes of conception, gestation and delivery.

Objectives: At the completion of the session, participants will be able to:

- Describe the existing evidence for associations between contemporary ARVs and birth defects in the context of state-of-art HIV treatment
- Elucidate issues facing clinicians, policymakers, and researchers related to this topic

Conveners

Tendayi Westerhof, *Pan African Positive Women's Coalition-Zimbabwe, Kadoma, Mashonaland West Province, Zimbabwe*



Meg Doherty, *WHO, Geneva, Switzerland*

59 UPDATE ON ANTIRETROVIRAL DRUGS AND BIRTH DEFECTS

4:00

Lynne M. Mofenson, *Elizabeth Glaser Pediatric AIDS Foundation, Washington, DC, USA*



60 ART OPTIONS AND TREATMENT DECISIONS FOR WOMEN OF REPRODUCTIVE POTENTIAL

4:30

Monica Gandhi, *University of California San Francisco, San Francisco, CA, USA*



61
5:00 **POLICY AND PROGRAM DECISIONS FOR ART IN WOMEN OF REPRODUCTIVE POTENTIAL**

Irene Mukui, Ministry of Health, Nairobi, Kenya



62
CHALLENGES IN ANTIRETROVIRAL RESEARCH IN WOMEN OF REPRODUCTIVE POTENTIAL

Anne D. Lyerly, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA



Symposium S-3 ADDING FUEL TO THE FIRE: SUBSTANCE USE AND HIV

Room 6AB

4:00 PM - 6:00 PM

Target Audience: This session is aimed for researchers, clinicians, and program designers and implementers interested in the intersection between substance use and HIV as related to both prevention of HIV acquisition and management of persons living with HIV with challenges related to substance use.

Level of Knowledge: It is assumed that attendees have knowledge of behavioral factors associated with HIV acquisition and how such factors influence access to HIV related testing, prevention, and treatment services.

Objectives: At the completion of the session, participants will be able to:

- Describe epidemiology of substance use in HIV infection
- Describe emerging issues in HIV and substance use with regard to:
 - Increase in HIV risk
 - Impact on adherence with ART
 - Effects on morbidity and mortality

Conveners

Nabila El-Bassel, Columbia University, New York, NY, USA



Dianne M. Rausch, National Institute of Mental Health, Bethesda, MD, USA

63
4:00 **CHASING THE DRAGON: OPIATES AND HIV**

Ricky N. Bluthenthal, University of Southern California, Los Angeles, CA, USA



64
4:30 **CHEMSEX AND IMPLICATIONS FOR HIV TRANSMISSION AND MANAGEMENT**

Mark R. Pakianathan, St. George's University of London, London, UK



65
5:00 **HIDDEN IN PLAIN SIGHT: THE ALCOHOL EPIDEMIC**

Leickness C. Simbayi, Human Sciences Research Council, Pretoria, South Africa



66
5:30 **TOBACCO SMOKING: THE SILENT KILLER**

Lene Ryom, Centre of Excellence for Health, Immunity and Infections, Copenhagen, Denmark



WEDNESDAY MARCH 6, 2019

Plenary PL-2 WEDNESDAY PLENARY SESSION
Auditorium - 4AB**CME****8:30 AM - 9:30 AM****Session Hosts****Galit Alter**, *Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, USA***Jonathan Mermin**, *Centers for Disease Control and Prevention, Atlanta, GA, USA***67** **RAISING THE WALL IN MATERNAL/FETAL IMMUNITY**

8:30

Sallie Permar, *Duke Human Vaccine Institute, Durham, NC, USA***68** **HUGGING PHYLOGENETIC TREES: USE OF MOLECULAR ANALYSIS FOR PUBLIC HEALTH INTERVENTION**

9:00

Alexandra M. Oster, *CDC, Atlanta, GA, USA***Oral Abstract O-06 VIRUS-CELL INTERACTION**
Room 606-609**10:00 AM - 12:00 PM****Oral Abstract Moderator****Wei-Shau Hu**, *National Cancer Institute, Frederick, MD, USA***Stefan Sarafianos**, *Emory University School of Medicine, Atlanta, GA, USA***69** **A VIRUS-PACKAGEABLE CRISPR SCREEN IDENTIFIES HIV RESTRICTION AND DEPENDENCY FACTORS**

10:00

Molly Ohainle, *Louisa Pendergast, Jolien Vermeire, Ferdinand Roesch, Daryl Humes, Julie M. Overbaugh, Michael Emerman***70** **A FUNCTIONAL MAP OF HIV-HOST INTERACTIONS IN PRIMARY HUMAN CD4+ T CELLS**

10:15

Judd F. Hultquist, *Joe Hiatt, Lara Rheinemann, Ryan Leenay, Andrew May, Wesley I. Sundquist, Alexander Marson, Nevan J. Krogan***71** **HIV-1 COMPLEXES TRAFFIC WITH HOST CPSF6 ON MICROTUBULES PRIOR TO NUCLEAR ENTRY**

10:30

*Zhou Zhong, Douglas K. Fischer, Chris Kline, Sooin Jang, Alan N. Engelman, Simon C. Watkins, Zandrea Ambrose***72** **HIV-1 CAPSID DETERMINANTS THAT INFLUENCE NUCLEAR ENVELOPE DOCKING AND NUCLEAR IMPORT**

10:45

Mohamed Husen M. Munshi, *Ryan C. Burdick, Wei-Shau Hu, Vinay K. Pathak***73** **SINGLE HIV-1 VIRUS IMAGING WITH CA-EGFP QUESTIONS A ROLE OF NUCLEAR CA IN INTEGRATION**

11:00

*Irena Zurnic, Lieve Dirix, Veerle Lemmens, Doortje Borrenberghs, Susana Rocha, Johan Hofkens, Frauke Christ, Jelle Hendrix, Zeger Debysers***74** **DISRUPTION OF HIV-1 LTR SEQUENCE BY A NUCLEOCAPSID MUTATION LEADS TO DTG RESISTANCE**

11:15

Atsuko Hachiya, *Karen A. Kirby, Hiroataka Ode, Maritza Puray-Chavez, Mai Kubota, Urara Shigemi, Reiko Okazaki, Masakazu Matsuda, Mayumi Imahashi, Wataru Sugiura, Yoshiyuki Yokomaku, Yasumasa Iwatani, Stefan Sarafianos*

- 75**
11:30 **INTEGRASE (IN) TETRAMERS ARE THE AUTHENTIC TARGETS FOR ALLOSTERIC HIV-1 IN INHIBITORS**
Pratibha Chowdary Koneru, Nanjie Deng, Ashley Hoyte, Jared Lindenberger, Stephanie Rebenburg, Ashwanth Francis, Dmitry Lyumkis, Alan N. Engelman, Gregory Melikian, Ronald Levy, Mamuka Kvaratskhelia
- 76 LB**
11:45 **TARGETING VIRUS ENV AND CD44 IMPROVES bNAb AVIDITY AND NEUTRALIZATION POTENCY**
Djin-Ye Oh, Lihong Liu, Jian Yu, Manoj Nair, Manxue Xia, Sho Iketani, Lili Tsai, Yehuda Z. Cohen, Neal Padte, Yaoxing Huang, David Ho

Oral Abstract 0-07 TB: FROM CONTACT TO CURE AND BEYOND
Room 6AB

10:00 AM - 12:00 PM

Oral Abstract Moderators

Timothy R. Sterling, *Vanderbilt University School of Medicine, Nashville, TN, USA*

Annie F. Luetkemeyer, *University of California San Francisco, San Francisco, CA, USA*



- 77**
10:00 **IPT AND PREGNANCY OUTCOMES IN HIV-POSITIVE WOMEN, THE TSHEPISO COHORT**
Nicole Salazar-Austin, Sanjay Lala, Ziyaad Waja, Silvia Cohn, Jennifer Hoffmann, Fildah Mashabela, Christopher Hoffmann, Kelly E. Dooley, Richard E. Chaisson, Neil A. Martinson, for the TSHEPISO Study Team
- 78**
10:15 **POTENTIAL CONCERN FOR TIMING OF DMPA INJECTION AMONG WOMEN TREATED FOR HIV AND TB**
Rosie Mngqibisa, Susan E. Cohn, Michelle A. Kendall, Xingye Wu, Kelly E. Dooley, Helen McIlleron, Jennifer A. Robinson, Cindy Firnhaber, Johanna C. Roa, Sharlaa Badal-Faesens, Francis Angira, Mpho S. Raesi, James G. Hakim, Catherine Godfrey, for the A5338 study team
- 79**
10:30 **IMPROVING CHILD TUBERCULOSIS CONTACT MANAGEMENT IN LESOTHO**
Yael Hirsch-Moverman, Andrea Howard, Limakatso Lebelo, Koen Frederix, Aprielle Wills, Anneke Hesseling, Joanne E. Mantell, Sharon Nachman, Llang Maama-Maime, Wafaa M. El-Sadr
- 80 LB**
10:45 **SAFETY & PK OF WEEKLY RIFAPENTINE/ISONIAZID (3HP) IN ADULTS WITH HIV ON DOLUTEGRAVIR**
Kelly E. Dooley, Gavin Churchyard, Radojka M. Savic, Akshay Gupte, Mark A. Marzinke, Nan Zhang, Vinodh Edward, Lisa Wolf, Modulakgotla Sebe, Morongwe Likoti, Mark Fyvie, Innocent Shibambo, Trevor Beattie, Richard E. Chaisson, for the DOLPHIN Study Team
- 81 LB**
11:00 **PHARMACOKINETICS AND SAFETY OF ADJUSTED DARUNAVIR/ RITONAVIR WITH RIFAMPIN IN PLWH**
Ismaeel Ebrahim, Gary Maartens, Wynand Smythe, Catherine Orrell, Lubbe Wiesner, Helen McIlleron
- 82**
11:15 **EARLY BACTERICIDAL ACTIVITY OF HIGH-DOSE ISONIAZID AGAINST MULTIDRUG-RESISTANT TB**
Kelly E. Dooley, Sachiko Miyahara, Florian von Groote-Bidlingmaier, Xin Sun, Richard Hafner, Susan L. Rosenkranz, Eric Nuermberger, Laura E. Moran, Kathleen Donahue, Susan Swindells, Andreas H. Diacon, for the ACTG A5312 Study Team
- 83**
11:30 **LONG-TERM MORTALITY AFTER TUBERCULOSIS CURE IN THE CIPRA HT-001 TRIAL**
Yvetot Joseph, Marc Antoine Jean Juste, Serena Koenig, Sean Collins, Zhiwen Yao, Akanksha Dua, Pierre Cremieux, Patrice Severe, Daniel Fitzgerald, Jean William Pape

84 LB QT EFFECTS OF BEDAQUILINE, DELAMANID OR BOTH IN MDR-TB PATIENTS: THE DELIBERATE TRIAL
11:45

Kelly E. Dooley, Susan L. Rosenkranz, Francesca Conradie, Laura E. Moran, Richard Hafner, Florian von Groote-Bidlingmaier, Javier R. Lama, Justin Shenje, Kyla Comins, Joel Morganroth, Andreas H. Diacon, Yoninah S. Cramer, Kathleen M. Donahue, **Gary Maartens**, for the ACTG A5343 Study Team

Oral Abstract 0-08 HEPATITIS C: NOW YOU SEE ME; SOON YOU WON'T
Room 6C 10:00 AM - 12:00 PM

Oral Abstract Moderators

Jennifer Price, *University of California San Francisco, San Francisco, CA, USA*

Gilles Wandeler, *Department of Infectious Diseases, Bern University Hospital, University of Bern, Bern, Switzerland*



85 FALL IN HCV INCIDENCE IN HIV+ MSM IN LONDON FOLLOWING WIDER ACCESS TO DAA THERAPY
10:00

Lucy J. Garvey, Colette J. Smith, Christof Stingone, Indrajit Ghosh, Alison Rodger, Lakshmi Jain, Chandni Sood, Tabitha Mahungu, Carolyn Freeman, Subathira Dakshina, Filippo Ferro, Laura Waters, Ashley Brown, Graham S. Cooke, Sanjay Bhagani

86 HCV REINFECTION AMONG HIV-INFECTED MSM IN NEW YORK CITY
10:15

Jesse R. Carollo, Stephanie H. Factor, Gabriela Rodriguez-Caprio, Asa Radix, Stephen M. Dillon, Rona Vail, Krisczar J. Bungay, Robert Chavez, José Lares-Guia, **Daniel S. Fierer**, for the New York Acute Hepatitis C Surveillance Network

87 A PHASE 1 STUDY OF LEDIPASVIR/SOFOSBUVIR IN PREGNANT WOMEN WITH HEPATITIS C VIRUS
10:30

Catherine A. Chappell, Elizabeth E. Krans, Katherine Bunge, Ingrid Macio, Debra Bogen, Kimberly K. Scarsi, Leslie A. Meyn, Sharon L. Hillier

88 INCIDENT DIABETES AND GLUCOSE CONTROL AFTER HCV TREATMENT WITH DAAs IN ERCHIVES
10:45

Adeel A. Butt, Samia Aslam, Peng Yan, Obaid S. Shaikh, Abdul-Badi Abou-Samra

89 INTRAHEPATIC HEPATITIS C KINETICS WITH DIRECT-ACTING ANTIVIRALS IN HIV COINFECTION
11:00

Ashwin Balagopal, Laura M. Smeaton, Vincent Vu, Charles S. Venuto, Gene D. Morse, Beverly Alston-Smith, Daniel E. Cohen, Jorge L. Santana, Donald D. Anthony, Mark Sulkowski, David L. Wyles, Andrew H. Talal, for the ACTG A5335S Substudy Team

90 HIV VIREMIA AND LOW CD4+ INCREASE HCC RISK IN THOSE WITHOUT ADVANCED LIVER FIBROSIS
11:15

Jessie Torgersen, Michael J. Kallan, Dena M. Carbonari, Jason A. Roy, Lesley S. Park, Tamar Taddei, Rajni Mehta, Kathryn D'Addeo, Joseph Lim, Matthew B. Goetz, Janet Tate, Norbert Bräu, Amy C. Justice, Vincent Lo Re

91 LB SINGLE HEPATOCYTE ANALYSIS IN HIV-HBV COINFECTION SHOWS HBV TRANSCRIPTION SILENCING
11:30

Ashwin Balagopal, Hyon S. Hwang, Tanner Grudde, Jeffrey Quinn, Richard K. Sterling, Mark Sulkowski, **Chloe Thio**

Oral Abstract 0-09 TESTING, VIRAL SUPPRESSION, AND IMPACT**Room 6E****10:00 AM - 12:00 PM****Oral Abstract Moderators****Amanda Derryck Castel**, *The George Washington University, Washington, DC, USA***Nyaradzo Mgodzi**, *University of Zimbabwe College of Health Sciences, Harare, Zimbabwe***92 LB** **IMPACT OF UNIVERSAL TESTING AND TREATMENT IN ZAMBIA AND SOUTH AFRICA: HPTN071(POPART)**
10:00**Richard J. Hayes**, Deborah J. Donnell, Sian Floyd, Nomtha Mandla, Justin Bwalya, Kwame Shanaube, Ayana Moore, Susan H. Eshleman, Christophe Fraser, Wafaa M. El-Sadr, Peter Bock, Nulda Beyers, Helen Ayles, Sarah Fidler, for the HPTN 071 (PopART) Study Team**93** **A RANDOMIZED TRIAL ON INDEX HIV SELF-TESTING FOR PARTNERS OF ART CLIENTS IN MALAWI**
10:15**Kathryn Dovel**, Kelvin Balakasi, Frackson Shaba, Khumbo Phiri, Ogechukwu Offorjebe, Sundeep Gupta, Vincent Wong, Eric Lungu, Mike Nyirenda, Brooke E. Nichols, Khumbo Ngona, Risa M. Hoffman, for the EQUIP Innovations for Health**94** **VIRAL LOAD SUPPRESSION AND YIELD OF HIV TESTS ARE SPATIALLY CORRELATED, KENYA 2015-17**
10:30**Anthony Waruru**, Joyce Wamicwe, Thomas Achia, Lucy Ng'ang'a, Kenneth Masamaro, Jacques Muthusi, Emily C. Zielinski-Gutierrez, James Tobias, Stella Njuguna, Catherine Mbaire, Kevin M. De Cock, Thorkild Tylleskär**95** **HIV TESTING, TREATMENT, AND VIRAL SUPPRESSION COVERAGE IN A CLUSTER-RANDOMIZED TRIAL**
10:45**Kathleen Wirth**, Tendani Gaolathe, Molly Pretorius Holme, Mompoti O. Mmalane, Etienne Kadima, Kutlo Manyake, Sikhulile Moyo, Kara Bennett, Jean Leidner, Refeletswe Lebelonyane, Pamela J. Bachanas, Joseph Makhema, Max Essex, Shahin Lockman, Eric Tchetgen Tchetgen**96** **FACTORS ASSOCIATED WITH PERSISTENT VIREMIA WITH UNIVERSAL "TEST & TREAT" IN UGANDA**
11:00**Eshan U. Patel**, Kate Grabowski, Aaron Tobian, Gertrude Nakigozi, Victor Ssempijja, Joseph Ssekasanvu, Godfrey Kigozi, Fred Nalugoda, Ronald H. Gray, Thomas C. Quinn, David Serwadda, Maria Wawer, Larry W. Chang, Joseph Kagaayi, Steven J. Reynolds**97** **VIROLOGIC FAILURE, LOW-LEVEL VIREMIA, AND VIRAL BLIP AFTER HIV RNA SUPPRESSION**
11:15**Jennifer S. Lee**, Keri N. Althoff, Elizabeth Humes, Joseph J. Eron, Michael John Gill, Michael A. Horberg, Heidi M. Crane, Mari Kitahata, Michael J. Silverberg, Baligh Yehia, Ellen F. Eaton, Neel R. Gandhi, Anita Rachlis, Richard D. Moore, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA**98** **FIFTY-PERCENT REDUCTION IN HIV INCIDENCE IN CHOKWE DISTRICT, MOZAMBIQUE, 2014-2017**
11:30**Duncan A. MacKellar**, Robert Nelson, Ricardo Thompson, Isabelle Casavant, Sherri Pals, Ishani Pathmanathan, Judite Cardoso, Dawud Ujamaa, Ernest L. Yufenyuy, Katrina Sleeman, Victor Chivurre, Noela Chicuecue, Keydra Oladapo, Aleny M. Couto, Alfredo Vergara**99** **A MODEL IMPACT ANALYSIS OF PrEP AND TasP IN FSW DEMONSTRATION PROJECT IN BENIN**
11:45**Lily Geidelberg**, Kate M. Mitchell, Marlène Aza-Gnandji, Luc Béhanzin, Fernand A. Guédou, Djimon M. Zannou, Dissou Affolabi, Rene Keke, Flore Gangbo, Moussa Bachabi, Peter Vickerman, Michel Alary, Marie-Claude Boily

Oral Abstract 0-10 NEW OPTIONS AND OPPORTUNITIES IN PrEP**Auditorium - 4AB****10:00 AM - 12:00 PM****Oral Abstract Moderators****Charlotte-Paige M. Rolle**, *Orlando Immunology Center, Orlando, Florida, USA***Marc Baum**, *Oak Crest Institute of Science, Monrovia, CA, USA***100**
10:00 **PROTECTION AGAINST PENILE OR INTRAVENOUS SHIV CHALLENGES BY bNAb 10-1074 OR 3BNC117****David A. Garber**, Debra R. Adams, Patricia Guenther, James Mitchell, Shanon Ellis, Kristen Kelley, Michael S. Seaman, Janet McNicholl, Michel Nussenzweig, Walid Heneine**101**
10:15 **PROTECTION AGAINST VAGINAL SHIV INFECTION WITH AN INSERT CONTAINING TAF AND EVG****Charles Dobard**, M. Melissa Peet, Kenji Nishiura, Onkar N. Singh, Timothy J. McCormick, James Mitchell, Gerardo Garcia-Lerma, Vivek Agrahari, Pardeep Gupta, Sriramakamal Jonnalagadda, Jill Schwartz, Walid Heneine, Gustavo Doncel, Meredith Clark**102**
10:30 **MODERATE EFFICACY OF ORAL SINGLE-AGENT TAF AGAINST VAGINAL SHIV INFECTION IN MACAQUES****Ivana Massud**, Mian-er Cong, Susan Ruone, Angela Holder, Kenji Nishiura, George Khalil, Yi Pan, Jonathan T. Lipscomb, James F. Rooney, Darius Babusis, Yeojin Park, Scott McCallister, Christian Callebaut, Walid Heneine, Gerardo Garcia-Lerma**103**
10:45 **LYMPHOID TISSUE PHARMACOKINETICS OF TENOFOVIR-ALAFENAMIDE VS -DISOPROXIL FUMARATE****Courtney V. Fletcher**, Ann Thorkelson, Kayla Campbell, Lee Winchester, Timothy Mykris, Jon Weinhold, Jodi Anderson, Jacob Zulk, Puleng Moshele, Siri Jorstad, Anthony Podany, Jason V. Baker, Timothy Schacker**104 LB**
11:00 **THE PHASE 3 DISCOVER STUDY: DAILY F/TAF OR F/TDF FOR HIV PREEXPOSURE PROPHYLAXIS****Charles B. Hare**, Josep Coll, Peter Ruane, Jean-Michel Molina, Kenneth H. Mayer, Heiko Jessen, Robert M. Grant, Joss J. De Wet, Melanie Thompson, Edwin DeJesus, Ramin Ebrahimi, Robertino Mera Giler, Moupali Das, Diana Brainard, Scott McCallister**105**
11:15 **USING EHR DATA TO IDENTIFY POTENTIAL PrEP CANDIDATES IN A LARGE HEALTH CARE SYSTEM****Julia L. Marcus**, Leo Hurley, Stacey Alexeeff, Douglas Krakower, Michael J. Silverberg, Jonathan E. Volk**106**
11:30 **PERSISTENCE WITH HIV PREEXPOSURE PROPHYLAXIS IN THE UNITED STATES, 2012-2016****Ya-Lin A. Huang**, Guoyu Tao, Dawn K. Smith, Karen W. Hoover**107**
11:45 **IMPACT OF PrEP ON DRUG RESISTANCE AND ACUTE HIV INFECTION, NEW YORK CITY, 2015-2017****Kavita Misra**, Jamie Huang, Demetre C. Daskalakis, Chi-Chi Udeagu

Themed Discussion TD-06 EARLY EVENTS

Room 606-609

1:30 PM - 2:30 PM

Themed Discussion Leader

Michael Emerman, *Fred Hutchinson Cancer Research Center, Seattle, WA, USA*



- 166 ENTRY KINETICS OF GLOBALLY REPRESENTATIVE AND VERTICALLY TRANSMITTED HIV ENVELOPES**
Nicholas E. Webb, Nicole Tobin, Grace M. Aldrovandi
- 167 CD4-DEPENDENT MODULATION OF HIV-1 ENTRY BY LY6E**
Jingyou Yu, Chen Liang, **Shan-Lu Liu**
- 168 ELUCIDATING MECHANISMS BY WHICH MUTATIONS IN ENV CONTRIBUTE TO HIV-1 DRUG RESISTANCE**
Rachel Van Duyn, Phuong Pham, Jonathan Spindler, Ann Wiegand, Mary F. Kearney, Eric O. Freed
- 169 NONRANDOM GENERATION OF DELETIONS WITHIN HIV PROVIRAL SEQUENCES IN VIVO**
Bonnie Hiener, Bethany A. Horsburgh, Vincent Morcilla, Eunok Lee, Susanne von Stockenstrom, Jeffrey M. Milush, Teri Liegler, Rebecca Hoh, Rémi Fromentin, Nicolas Chomont, Steven G. Deeks, Frederick M. Hecht, Sarah Palmer, Robert Lanfear
- 170 HOST FACTORS INFLUENCE SIV AND HIV-1 INFECTION AND SENSITIVITY TO CAPSID INHIBITORS**
Rachel Scheck, Augustin P. Twizerimana, Zeli Zhang, Dieter Häussinger, **Carsten Münk**

Themed Discussion TD-07 INSIGHT FROM ANALYTICAL TREATMENT INTERRUPTIONS

Auditorium - 4AB

1:30 PM - 2:30 PM

Themed Discussion Leader

John Frater, *University of Oxford, Oxford, United Kingdom*



- 389 ANALYTICAL TREATMENT INTERRUPTION (ATI) IN PATIENTS WITH VERY SMALL HIV RESERVOIR**
Pieter Pannus, Sofie L. Rutsaert, Stephane de Wit, Sabine Allard, Guido Vanham, Coca Necsoi, Joeri Aerts, Ward De Spiegelaere, Achilleas Tsoumanis, Marie Couttenye, Natacha Herssens, Linos Vandekerckhove, **Eric Florence**
- 390 N-803 INDUCES ROBUST SIV REACTIVATION IN ART-TREATED CD8-DEPLETED MACAQUES**
Julia B. McBrien, Maud Mavigner, Stacey A. Smith, Erick R. White, Thomas Vanderford, Jake D. Estes, Jeffrey D. Lifson, John H. Lee, Jeffrey T. Safrit, J. V. Garcia, Mirko Paiardini, Steven E. Bosinger, Cynthia Derdeyn, Ann Chahroudi, Guido Silvestri
- 391 REBOUND OF HIV-1 IN CEREBROSPINAL FLUID AFTER TREATMENT INTERRUPTION**
Richard W. Price, Maria Bednar, Laura P. Kincer, Rebecca Hoh, Magnus Gisslén, Sarah B. Joseph, Serena S. Spudich, Steven G. Deeks, Ronald Swanstrom
- 392 COMPARTMENTALIZED HIV REBOUND IN THE MALE GENITAL TRACT AFTER ART INTERRUPTION**
Sara Gianella, Antoine Chaillon, Tae-Wook Chun, Caroline Ignacio, Colin Kovacs, Erika Benko, Sanja Huibner, Rupert Kaul

393 SEEKING SUPPRESSION IN HAVARTI: VIREMIA & T CELLS AFTER VEDOLIZUMAB & ATI IN HIV/ART

Michaeline McGuinty, Jonathan Angel, Ashok Kumar, Richmond Sy, Sanjay Murthy, Donald Kilby, Nancy Tremblay, Elizabeth Lavoie, Stephanie Burke Schinkel, Siddappa N. Byrareddy, D. William Cameron, for the HAVARTI CTNPT031 Study Team

**Themed Discussion TD-08 WEIGHT GAIN DURING ART
Room 6AB**

1:30 PM - 2:30 PM

Themed Discussion Leader

Jane A. O'Halloran, *Washington University in St Louis, St Louis, MO, USA*



669 RISK FACTORS FOR EXCESS WEIGHT GAIN FOLLOWING SWITCH TO INTEGRASE INHIBITOR-BASED ART

Jordan E. Lake, Kunling Wu, Kristine M. Erlandson, Sara H. Bares, Paula Debroy, Catherine Godfrey, John R. Koethe, Grace A. McComsey, Frank J. Palella, Katherine Tassiopoulos

670 GREATER WEIGHT GAIN AMONG TREATMENT-NAIVE PERSONS STARTING INTEGRASE INHIBITORS

Kassem Bourgi, Cathy Jenkins, Peter F. Rebeiro, Jordan E. Lake, Richard D. Moore, W. C. Mathews, Michael A. Horberg, Amanda Willig, Michelle Floris-Moore, Michael John Gill, Angel M. Mayor, Ronald Bosch, Timothy R. Sterling, John R. Koethe, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) for IeDEA

671 WEIGHT GAIN DURING TREATMENT AMONG 3,468 TREATMENT-EXPERIENCED ADULTS WITH HIV

Grace A. McComsey, Joseph J. Eron, Steven Santiago, Karam Mounzer, Graeme Moyle, Thanos Vanig, Paul E. Sax, Keri N. Althoff, Scott Milligan, Michael Marks, Richard Haubrich, Richard A. Elion

672 INTEGRASE STRAND TRANSFER INHIBITORS ARE ASSOCIATED WITH WEIGHT GAIN IN WOMEN

Anne M. Kerchberger, Anandi N. Sheth, Christine D. Angert, Cyra Christina Mehta, Nathan A. Summers, Igbo Ofotokun, Deborah Gustafson, Sheri Weiser, Seble Kassaye, Deborah Konkle-Parker, Anjali Sharma, Adaora Adimora, Hector Bolivar, Cecile D. Lahiri

673 THE IMPACT OF WEIGHT GAIN AND SEX ON IMMUNE ACTIVATION FOLLOWING INITIATION OF ART

Sara H. Bares, Laura M. Smeaton, Vincent Vu, Beth A. Zavoda-Smith, Sarah E. Scott, Catherine Godfrey, Grace A. McComsey

Themed Discussion TD-09 THE STATE OF THE MIND: GROWING UP WITH HIV

Room 6E

1:30 PM - 2:30 PM

Themed Discussion Leader

Robert Paul, *University of Missouri, St. Louis, St. Louis, MO, USA*



819 YOUTH PSYCHIATRIC TRAJECTORIES PREDICT PERINATALLY HIV INFECTED YOUNG-ADULT VIREMIA

Nadia Nguyen, Chien-Wen J. Choi, Reuben Robbins, Curtis Dolezal, Cheng-Shiun Leu, Rehema Korich, Elaine J. Abrams, Andrew Wiznia, Claude A. Mellins

- 820 TRAJECTORY ANALYSIS OF COGNITIVE OUTCOMES IN CHILDREN WITH PERINATAL HIV**
Payal Patel, Tanakorn Apornpong, Stephen J. Kerr, Thanyawee Puthanakit, Kulvadee Thongpibul, Pope Kosalaraksa, Pradthana Ounchanum, Suparat Kanjanavanit, Ly Penh Sun, Saphonn Vonthanak, Serena S. Spudich, Jintanat Ananworanich, Robert Paul, for the PREDICT/Resilience Study Group
- 821 FOCUSED COGNITIVE FUNCTION TESTING IN YOUNG PEOPLE WITH PERINATAL HIV IN ENGLAND**
Alejandro Arenas-Pinto, Hannah Castro, Diane Melvin, Marthe Le Prevost, Caroline Foster, Kate Sturgeon, Alan Winston, Lindsay Thompson, Diana Gibb, Ali Judd, for the Adolescents and Adults Living with Perinatal HIV (AALPHI) Steering Committee
- 822 SYSTEMIC INFLAMMATION AND STRUCTURAL BRAIN CHANGES IN PERINATALLY HIV+ ADOLESCENTS**
Jackie Hoare, Landon Myer, Sarah Heany, JP Fouche, Nicole Phillips, Heather Zar, Dan Stein
- 823 GENOMICS LINKS AUTOPHAGY WITH NEUROCOGNITIVE IMPAIRMENT IN HIV-INFECTED CHILDREN**
Stephen A. Spector, Sean S. Brummel, Kumud K. Singh, Jihoon Kim, Kelly Frazer, Sharon Nichols, Olivier Harismendy, George R. Seage, Paige L. Williams, Russell B. Van Dyke, Rodney Trout

Themed Discussion TD-10 NOVEL PUBLIC HEALTH: CLUSTERS, CONTRASTS AND PHYLOGENETICS

Room 6C

1:30 PM - 2:30 PM

Themed Discussion Leader

Frank Tanser, *African Health Research Institute, Durban, South Africa*



- 856 INCIDENT INFECTION IN HIGH-PRIORITY HIV MOLECULAR TRANSMISSION CLUSTERS**
Joel O. Wertheim, Nivedha Panneer, Anne Marie France, Neeraja Saduvala, Alexandra M. Oster
- 857 MOLECULAR SURVEILLANCE AS A MEANS TO EXPAND AN OUTBREAK INVESTIGATION: MA, 2015-2018**
Betsey John, Nivedha Panneer, Matthew Tumpney, Paul McClung, Erica Dawson, Kate Buchacz, Kathleen Roosevelt, Philip J. Peters, Tracy Stiles, Ellsworth M. Campbell, William M. Switzer, Alfred DeMaria, Kevin Cranston, Sheryl Lyss, for the Massachusetts Epi-Aid Investigation Team
- 876 HIV MOLECULAR SURVEILLANCE AND PRETREATMENT DRUG RESISTANCE IN MEXICO CITY**
 Antoine Chaillon, Margarita Matías-Florentino, **Santiago Avila-Rios**, Sanjay R. Mehta, Hector E. Paz-Juarez, Manuel A. Becerril-Rodríguez, Silvia del Arenal, Alicia Piñeirúa, Verónica Ruiz, Patricia Iracheta-Hernández, Israel Macías-González, Jehovani Tena-Sánchez, Florentino Badial Hernandez, Gustavo Reyes-Terán
- 867 CLUSTER SURVEILLANCE OF FRENCH PRIMARY INFECTIONS: TOWARD A MORE VIRULENT CRF02_AG?**
Benoit Visseaux, Lambert Assoumou, Mary Anne Traubaud, Brigitte Montes, Laurence Bocket, Samira Fafi-Kremer, Marc Wirlden, Corinne Amiel, Anne De Monte, Karl Stefic, Camille Tumiotto, Anne Maillard, Diane Descamps, Marie-Laure Chaix Baudier, for the AC43 ANRS Resistance Group

841 LITTLE OR NO OVERLAP OF SEXUAL NETWORKS OF TRANSGENDER WOMEN AND MSM IN LIMA, PERU

Jessica E. Long, Hugo Sanchez, Dania Calderon Garcia, Leyla Huerta Castillo, Javier R. Lama, Ann Duerr

Themed Discussion TD-11 PLACES AND PEOPLE: MODELING THE COSTS AND EFFECT OF INTERVENTIONS ON HIV INCIDENCE

Room 615-617

1:30 PM - 2:30 PM

Themed Discussion Leader

Ruanne V. Barnabas, *University of Washington, Seattle, WA, USA*



1087 SCALE-UP OF ART AND VMMC EXPLAIN A TWO-FOLD DECLINE IN HIV INCIDENCE IN WESTERN KENYA

Anna Bershteyn, Adam N. Akullian, Daniel J. Klein, Britta Jewell, Kennedy Mutai, Samuel M. Mwalili

1084 EPIDEMIC IMPACT OF SUSTAINED VIREMIA AMONG FEMALE SEX WORKERS IN SOUTHERN AFRICA

Sharmistha Mishra, Huiting Ma, Sheree Schwartz, Deliwe R. Phetlhu, Vijayanand Guddera, Nora West, Carly Comins, Harry Hausler, Stefan Baral, for the Siyamphambili Study Team

1085 ESTIMATING HIV INCIDENCE AMONG YOUNG WOMEN IN HPTN 082 USING BASELINE HIV RISK SCORES

James R. Moore, Deborah J. Donnell, Marie-Claude Boily, Kate M. Mitchell, Sinead Delany-Moretlwe, Connie L. Celum, Dobromir Dimitrov

1086 A MATHEMATICAL MODELING ANALYSIS OF COMBINATION HIV PREVENTION IN ANTENATAL CLINICS

Kimberly A. Powers, Kate Orroth, Nora E. Rosenberg, Lauren A. Graybill, Andrew Kumwenda, Tiwonge Mtande, Katie Mollan, Oliver Mweemba, Wilbroad Mutale, Benjamin H. Chi

1083 COST-EFFECTIVENESS OF PREEXPOSURE PROPHYLAXIS AMONG ADOLESCENT SEXUAL MINORITY MALES

Li Yan Wang, Deven T. Hamilton, Eli Rosenberg, Patrick S. Sullivan, David A. Katz, Richard Dunville, Lisa C. Barrios, Maria Aslam, Steven M. Goodreau

Symposium S-4 EXPRESS YOURSELF: PROVIRUS

Room 6C

CME

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding the nature and role of the latent reservoir in HIV-1 persistence.

Level of Knowledge: It is assumed that the participants are familiar with basic aspects of HIV-1 replication and the concept that HIV-1 DNA can adopt an integrated, latent state in infected cells.

Objectives: At the completion of the session, participants will be able to:

- Evaluate progress in the field of latency reversing agents
- Describe concepts and mechanisms that underlie stochastic HIV-1 gene expression and its silencing by host proteins
- Describe how HIV-1 proviruses can influence host gene expression

Conveners

Vicente Planelles, *University of Utah School of Medicine, Salt Lake City, UT, USA*



Florence Margottin-Goguet, *Institut Cochin, INSERM, Paris, France*

108 THE CURRENT STATUS OF LATENCY REVERSING AGENTS
4:00

Carine M. Van Lint, *Université Libre de Bruxelles, Brussels, Belgium*



109 DISCOVERY AND CHARACTERIZATION OF A VIRUS-INTRINSIC HIV LATENCY CIRCUIT
4:30

Leor Weinberger, *Gladstone Institutes, San Francisco, CA, USA*



110 SILENCING OF RETROVIRAL GENE EXPRESSION BY THE HUSH COMPLEX
5:00

Stephen P. Goff, *Columbia University Medical Center, New York, NY, USA*



111 THE POWER OF THE HIV PROMOTER: IMPACT OF HIV-DRIVEN VIRAL AND HOST GENE EXPRESSION
5:30

Ya-Chi Ho, *Yale University, New Haven, CT, USA*



Symposium S-5 COINFECTIONS: TUBERCULOSIS, HEPATITIS B AND C, AND HIV

CME

Room 6E

4:00 PM - 6:00 PM

Target Audience: This session is directed to persons interested in understanding the importance of tuberculosis and hepatitis infections in persons with HIV.

Level of Knowledge: It is assumed that the audience has a broad knowledge of medicine and infectious diseases.

Objectives: After attending this session, learners will be able to:

- Outline the journey to HBV cure
- Describe HCV vaccine development and recent trial results
- Describe recent advances in treating and preventing tuberculosis

Conveners

Lele Rangaka, *University College London, London, United Kingdom*



Anchalee Avihingsanon, *HIV-NAT, Thai Red Cross AIDS Research Centre, Bangkok, Thailand*

112 DYNAMICS OF ACUTE HCV IN WESTERN EUROPE
4:00

Jürgen K. Rockstroh, *University of Bonn, Bonn, Germany*



113 A VACCINE TO PREVENT HCV: ARE WE GETTING THERE?
4:30

Andrea L. Cox, *Johns Hopkins University, Baltimore, MD, USA*



114 CHOICES AND DILEMMAS: PREVENTING TUBERCULOSIS IN PEOPLE WITH HIV INFECTION
5:00

Amita Gupta, *Johns Hopkins University, Baltimore, MD, USA*



115 5:30 TREATING MULTIDRUG-RESISTANT TUBERCULOSIS IN THE REAL WORLD: NEW DRUGS AND REGIMENS

Jennifer Furin, *Harvard Medical School, Boston, MA, USA*



Symposium S-6 THE STORY OF U: IMPLICATIONS OF UNDETECTABLE VIRAL LOAD ON TRANSMISSION

CME

Room 6AB

4:00 PM - 6:00 PM

Target Audience: This session is directed at clinicians and scientists who are interested in HIV transmission risk and mitigating factors, data supporting the lack of transmission risk from persons who are fully virally suppressed, clinical challenges in applying U=U, and community perspectives.

Level of Knowledge: It is assumed that the participants are familiar with HIV epidemiology and risk factors for HIV transmission.

Objectives: After attending this session, learners will be able to describe Undetectable = Untransmittable with regard to:

- Virology and other basic science issues
- Clinical challenges
- Social implications

Conveners

Eugene McCray, *CDC, Atlanta, GA, USA*

Loice Achieng, *University of Nairobi, Nairobi, Kenya*



116 4:00 THE STORY OF U=U: SCIENTIFIC UNDERPINNINGS

Pietro L. Vernazza, *St Gallen Cantonal Hospital, St Gallen, Switzerland*



117 4:30 CARING FOR U: CLINICAL CONUNDRUMS

Nneka Nwokolo, *Chelsea and Westminster Hospital, London, UK*



118 5:00 ME AND U: COMMUNITY PERSPECTIVES

Carrie Foote, *Indiana University, Bloomington, IN, USA*



119 5:30 MORE THAN U: MAXIMIZING POPULATION-LEVEL EFFECTS OF U=U

Andrew E. Grulich, *University of New South Wales, Sydney, NSW, Australia*



THURSDAY MAR 07, 2019

Plenary PL-3 THURSDAY PLENARY SESSION

Auditorium - 4AB

CME

8:30 AM - 9:30 AM

Session Hosts

Angela Kashuba, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*

Dennis L. Kolson, *University of Pennsylvania, Philadelphia, PA, USA*



120
8:30 **THE CHALLENGES OF HIV TREATMENT IN AN ERA OF POLYPHARMACY**

David Back, *University of Liverpool, Liverpool, UK*



121
9:00 **NEUROHIV: WHAT THE VIRUS TELLS US**

Ronald Swanstrom, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*



Oral Abstract O-11 SUPPRESSIVE ART AND THE CNS: SWITCHES, OUTCOMES, AND BIOMARKERS

Room 606-609

10:00 AM - 12:00 PM

Oral Abstract Moderators

Kevin Robertson, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*

Leah H. Rubin, *Johns Hopkins University, Baltimore, MD, USA*



122
10:00 **BRAIN CONNECTIVITY IN NEUROLOGICALLY ASYMPTOMATIC PEOPLE WITH HIV SWITCHING ART**

Jaime H. Vera, Sofia Toniolo, Mara Cercignani, Borja Mora-Peris, Jasmini Alagaratnam, Jonathan Underwood, Marta Boffito, Mark Nelson, Alan Winston

123
10:15 **DEEP-LEARNING CEREBRAL BLOOD FLOW FOR COGNITIVE-IMPAIRMENT CLASSIFICATION IN HIV**

Patrick Lockett, Julie Wisch, Sarah A. Cooley, Beau M. Ances

124
10:30 **HOST GLYCOMIC DETERMINANTS OF HIV-ASSOCIATED NEUROCOGNITIVE IMPAIRMENT DURING THERAPY**

Leila B. Giron, Irena Trbojevic-Akmacic, Kenneth M. Lynn, Surya Vadrevu, Alitzel Anzures, Karam Mounzer, Philip J. Norris, Alan Landay, Thomas Premeaux, Gordan Lauc, Cecilia Shikuma, Luis Montaner, Lishomwa C. Ndhlovu, Mohamed Abdel-Mohsen

125
10:45 **CSF SCD30 ELEVATION DESPITE SUPPRESSIVE ART SUGGESTS CNS HIV PERSISTENCE**

Michael Peluso, Cassandra Thanh, Louise Hogan, Sophie Stephenson, Steven G. Deeks, Magnus Gisslén, Richard W. Price, Timothy J. Henrich

126
11:00 **CSF HIV RNA DETECTED AT <20 COPIES/ML ASSOCIATES WITH BLOOD-BRAIN BARRIER MEASURES**

Shellie Farhadian, Jennifer Chiarella, Rachela Calvi, Hetal Mistry, Tobias Kirchwey, Payal Patel, Michelle Chintanaphol, Marie L. Landry, Serena S. Spudich

127 **EFFECT ON PLASMA NFL, A MARKER OF NEURONAL INJURY, AFTER SWITCHING FROM TDF TO TAF**

11:15

Linn Hermansson, Richard W. Price, Aylin Yilmaz, Staffan Nilsson, Scott McCallister, Tariro Makadzange, Moupali Das, Henrik Zetterberg, Kaj Blennow, Magnus Gisslén

128 **CARDIOVASCULAR RISK SCORES PREDICT LONGITUDINAL COGNITIVE FUNCTION IN OLDER PLHIV**

11:30

Felicia C. Chow, Asya Lyass, Joseph Massaro, Virginia Triant, Kunling Wu, Baiba Berzins, Kevin Robertson, Ronald J. Ellis, Katherine Tassiopoulos, Babafemi Taiwo, Ralph D'Agostino

129 **OBESITY IS INDEPENDENTLY ASSOCIATED WITH NEUROCOGNITIVE DECLINE IN HIV**

11:45

Jeremiah Perez, Adriana Andrade, Ronald J. Ellis, Mary Clare Masters, Karl Goodkin, Susan L. Koletar, Frank J. Palella, Kevin Robertson, Ned Sacktor, Katherine Tassiopoulos, **Kristine M. Erlandson**

Oral Abstract 0-12 HIV/SIV AND THE IMMUNE SYSTEM: AN INTIMATE DANCE

Room 6E

10:00 AM - 12:00 PM

Oral Abstract Moderators

Michael M. Lederman, *Case Western Reserve University, Cleveland, OH, USA*

Gert U. van Zyl, *Stellenbosch University, Cape Town, South Africa*



130 **HIGH HIV VIRAL BURDEN PERSISTS IN CXCR3+ GCTFH DESPITE VERY EARLY ART INITIATION**

10:00

Omolara Baiyegunhi, Jaclyn Mann, Adrienne Yanez, Geetha H. Mylvaganam, Krista Dong, Thumbi Ndungú, Bruce D. Walker, **Zaza Ndhlovu**

131 **SIROLIMUS REDUCES T-CELL CYCLING AND IMMUNE CHECKPOINT MARKER EXPRESSION, ACTG A5337**

10:15

Timothy J. Henrich, Ronald Bosch, Catherine Godfrey, Hanna Mar, Apsara Nair, Elizabeth Hawkins, Carl Fichtenbaum, Michael Keefer, Jonathan Z. Li, Daniel R. Kuritzkes, Michael M. Lederman, Priscilla Hsue, Steven G. Deeks

132 **PD-1 AND CTLA-4 BLOCKADE IN MACAQUES INDUCES T-CELL EXPANSION AND SIV REACTIVATION**

10:30

Justin L. Harper, Shari Gordon, Cristin Galardi, Hong Wang, Colleen S. McGary, Colin T. King, James Schawalder, Andrew Z. Sanderson, Brian A. Johns, Jeffrey D. Lifson, Jake D. Estes, David M. Margolis, Guido Silvestri, David Favre, **Mirko Paiardini**

133 **FTY720 LIMITS T FOLLICULAR HELPER CELL INFECTION IN LYMPHOID SITES OF SIV PERSISTENCE**

10:45

Maria Pino, Sara Paganini, Claire Deleage, Kartika Padhan, Justin L. Harper, Colin T. King, Luca Micci, Barbara Cervasi, Joseph Mudd, Sherrie M. Jean, Kirk A. Easley, Jacob D. Estes, Constantinos Petrovas, Michael M. Lederman, Mirko Paiardini

134 **TRANSCRIPTIONAL SIGNATURE OF LYMPH NODE CD8+ T CELLS IN HIV ELITE CONTROLLERS**

11:00

Son Nguyen, Claire Deleage, Sam Darko, Amy Ransier, Duc P. Truong, Divyansh Argawal, Alberto Sada Japp, Perla Del Río-Estrada, Ali Naji, Gustavo Reyes-Terán, Jacob D. Estes, Daniel Douek, Steven G. Deeks, Marcus Buggert, Michael R. Betts

- 135**
11:15 **CHARACTERIZING THE PROVIRAL LANDSCAPE IN HIV-1 ELITE CONTROLLERS**
Chenyang Jiang, Xiaodong Lian, Joshua Chevalier, Samantha M. Chen, Ce Gao, Xiaoming Sun, Kevin Einkauf, Ben S. Rhee, Kaylee Chang, Jane Blackmer, Bruce D. Walker, Mathias Lichterfeld, Xu G. Yu
- 136**
11:30 **INTERFERON A2B REDUCES INDUCIBLE CD4-ASSOCIATED HIV IN ART-SUPPRESSED INDIVIDUALS**
Livio Azzoni, Emmanouil Papasavvas, Jay Kostman, Pablo Tebas, Karam Mounzer, Ian Frank, Kenneth M. Lynn, Linden Lalley-Chareczko, Rui Feng, Scott Appel, Bonnie J. Howell, Daniel Holder, Shih Lin Goh, Guoxin Wu, Luis Montaner
- 137**
11:45 **NEF-STOP REPAIR DYNAMICS, BUT NOT ANTI-A4B7, INFLUENCE POSTTREATMENT VIRAL CONTROL**
Michele Di Mascio, Sharat Srinivasula, Paula DeGrange, Brandon F. Keele, Michael Proschan, Jeffrey D. Lifson, H. Clifford Lane

Oral Abstract O-13 ANTIRETROVIRAL CLINICAL TRIALS AND RESISTANCE

Room 6AB

10:00 AM - 12:00 PM

Oral Abstract Moderators

Sharon Riddler, *University of Pittsburgh, Pittsburgh, PA, USA*

Johnstone Kumwenda, *College of Medicine-Johns Hopkins Project, Blantyre, Malawi*



- 138**
10:00 **SEARCH INTERVENTION REDUCES MORTALITY AT A POPULATION LEVEL IN MEN WITH LOW CD4 COUNT**
Moses R. Kanya, Maya L. Petersen, Dalsone Kwariisima, James Ayieko, Norton Sang, Jane Kabami, Tamara D. Clark, Edwin D. Charlebois, Laura B. Balzer, Craig R. Cohen, Vivek Jain, Elizabeth A. Bukusi, Gabriel Chamie, Diane V. Havlir
- 139**
10:15 **LONG-ACTING CABOTEGRAVIR + RILPIVIRINE AS MAINTENANCE THERAPY: ATLAS WEEK 48 RESULTS**
Susan Swindells, Jaime-Federico Andrade-Villanueva, Gary J. Richmond, Giuliano Rizzardini, Axel Baumgarten, Maria Del Mar Masia, Gulam Latiff, Vadim Pokrovsky, Joseph M. Mrus, Jenny O. Huang, Krischan J. Hudson, David A. Margolis, Kimberly Smith, Peter E. Williams, William Spreen
- 140 LB**
10:30 **LONG-ACTING CABOTEGRAVIR + RILPIVIRINE FOR HIV MAINTENANCE: FLAIR WEEK 48 RESULTS**
Chloe Orkin, Keikawus Arastéh, Miguel Górgolas Hernández-Mora, Vadim Pokrovsky, Edgar T. Overton, Pierre-Marie Girard, Shinichi Oka, Ronald D'Amico, David Dorey, Sandy Griffith, David A. Margolis, Peter E. Williams, Wim Parys, William Spreen
- 141**
10:45 **SAFETY AND PK OF SUBCUTANEOUS GS-6207, A NOVEL HIV-1 CAPSID INHIBITOR**
Jennifer E. Sager, Rebecca Begley, Martin Rhee, Steve K. West, John Ling, Scott D. Schroeder, Winston C. Tse, Anita Mathias
- 142**
11:00 **A PHASE IIA STUDY OF NOVEL MATURATION INHIBITOR GSK2838232 IN HIV PATIENTS**
Edwin DeJesus, Sara Harward, Roxanne C. Jewell, Mark Johnson, Etienne Dumont, Viviana Wilches, Fiona Halliday, Christine Talarico, Jerry Jeffrey, Kevin Gan, Franco B. Felizarta, Anita Scribner, Moti Ramgopal, Paul Benson, Brian A. Johns

143 SYSTEMATIC DETERMINATION OF IN VITRO HIV-1 INTEGRASE RESISTANCE FROM CLINICAL SAMPLES

11:15

Aniqa Shahid, Vincent Montoya, Wendy W. Zhang, Conan K. Woods, Natalia S. Oliveira, Sarina Barnes, Rob Hollebakken, Chanson J. Brumme, Peter Cheung, P. Richard Harrigan

144 DTG VS LPV/R (DAWNING): EFFICACY BY BASELINE NRTI RESISTANCE AND SECOND-LINE NRTI USE

11:30

Dannae Brown, Ruolan Wang, Mark Underwood, Judy Hopking, Maria Claudia Nascimento, Michael Aboud, Jörg Sievers

145 LB THERAPEUTIC ACTIVITY OF PGT121 MONOCLONAL ANTIBODY IN HIV-INFECTED ADULTS

11:45

Kathryn E. Stephenson, Boris Julg, Jessica Ansel, Stephen R. Walsh, Chen S. Tan, Lori Maxfield, Peter Abbink, Huub C. Gelderblom, Frances Priddy, Allan C. deCamp, Roberto Arduino, Edwin DeJesus, Georgia Tomaras, Michael S. Seaman, Dan Barouch

Oral Abstract 0-14 PERSISTENT CHALLENGES WITH ANTIRETROVIRAL THERAPY

Room 6C

10:00 AM - 12:00 PM

Oral Moderators

Alan E. Greenberg, *George Washington University, Washington, DC, USA*

Adebola Adedimeji, *Albert Einstein College of Medicine, Bronx, NY, USA*

**146 MORTALITY REDUCTION IN WESTERN KENYA DURING SCALE-UP OF HIV TREATMENT, 2011-2016**

10:00

Martien W. Borgdorff, George O. Otieno, Y. O. Whiteside, Thomas Achia, Daniel Kwaro, Sylvia Ojoo, Maquins Sewe, Paul K. Musingila, Victor Akelo, David Obor, Amek Nyaguara, Kevin M. De Cock, **Emily C. Zielinski-Gutierrez**

147 OPIOID OVERDOSE DEATHS AMONG PERSONS WITH HIV INFECTION, UNITED STATES, 2011-2015

10:15

Karin A. Bosh, Nicole Crepaz, Xueyuan Dong, Sheryl Lyss, Maria Mendoza, Andrew J. Mitsch

148 EARLY MORTALITY IN HIV-INFECTED PATIENTS INITIATING ART WITHOUT A PRETHERAPY CD4

10:30

Kombatende Sikombe, Ingrid Eshun-Wilson, Aybuke Koyuncu, Sandra Simbeza, Aaloke Mody, Nancy Czaicki, Laura K. Beres, Carolyn Bolton Moore, Nancy Padian, Izukanji Sikazwe, Charles B. Holmes, Elvin Geng

149 UTILITY OF CD4 CELL COUNT MONITORING IN BOTSWANA: ANALYSIS OF ROUTINE LABORATORY DATA

10:45

Tshepo B. Leeme, Madisa Mine, Kwana Lechiile, Mosepele Mosepele, Thongbotho Mphoyakgosi, Charles Muthoga, Julia Ngidi, Bornaparte Nkomo, Dinah Ramaabya, Modiri Tau, Mark W. Tenforde, Richard Hayes, Joseph N. Jarvis

150 TRENDS IN CD4 AND VIRAL LOAD TESTING IN SOUTHERN AFRICA: ANALYSIS OF 6 COUNTRIES

11:00

Elizabeth Zaniewski, Cam Ha Dao Ostinelli, Nicola Maxwell, Mary-Ann Davies, Jonathan Euvrard, Janneke van Dijk, Samuel Bosomprah, Frank Tanser, Matthew P. Fox, Nathan Ford, Nosisa Sipambo, Josephine Muhairwe, **Matthias Egger**

- 151**
11:15 **HIGH LEVELS OF DRUG RESISTANCE AMONG ART-EXPERIENCED HOSPITALIZED PATIENTS**
Claire Bossard, Gloria A. Omollo, Patrick Ngimbi Nsuka, Rose Burns, Lakshmi Jain, Gisèle Mucinya, Valarie S. Opollo, Stephen S. Wanjala, Gilles van Cutsem, Elisabeth Szumilin, David Maman, Birgitt Schramm, Elisabeth Poulet
- 152**
11:30 **HIV DRUG RESISTANCE IN SOUTH AFRICA: RESULTS FROM A POPULATION-BASED HOUSEHOLD SURVEY**
Sizulu Moyo, Gillian Hunt, Zuma Khangelani, Nompumelelo P. Zungu, Edmore Marinda, Musa Mabaso, Karidia Diallo, Cheryl Dietrich, Thomas Rehle
- 153**
11:45 **DURATION OF INFECTIOUSNESS AMONG PERSONS WITH HIV DIAGNOSED DURING 2012-2016**
Nicole Crepaz, Riuguang Song, Irene Hall

Themed Discussion TD-12 ART: InSTIs AND TOXICITY**Room 606-609****1:30 PM - 2:30 PM****Themed Discussion Leader****Alan Winston**, Imperial College London, London, United Kingdom

- 440** **NEUROPSYCHIATRIC OUTCOMES BEFORE AND AFTER SWITCHING TO DOLUTEGRAVIR-BASED THERAPY**
Phillip Chan, Orlanda Goh, Eugène Kroon, Donn J. Colby, Carlo Sacdalan, Suteeraporn Pinyakorn, Somporn Tipsuk, Nittaya Phanuphak, Praphan Phanuphak, Jintanat Ananworanich, Victor Valcour, Serena S. Spudich, Robert Paul, for the RV254/SEARCH010
- 441** **NEUROPSYCHOLOGICAL CHANGES IN EFAVIRENZ SWITCH REGIMENS IN MACS**
Yijia Li, Zheng Wang, Yu Cheng, James T. Becker, Eileen Martin, Andrew Levine, Leah H. Rubin, Ann B. Ragin, Ned Sacktor, University o. Pittsburgh
- 442** **MEMORY AND LEARNING DYSFUNCTION WITH INTEGRASE STRAND TRANSFER INHIBITORS USE**
Jane A. O'Halloran, Sarah A. Cooley, Jeremy Strain, Robert Paul, Rachel Presti, Beau Ances
- 443** **CEREBRAL FUNCTION PARAMETERS IN PEOPLE LIVING WITH HIV SWITCHING INTEGRASE INHIBITOR**
Borja Mora-Peris, Laura Else, Jaime Vera-Rojas, Caire Petersen, Maryam Khan, Sujan Dilly Penchala, Sofia Toniolo, Mara Cercignani, Michael R. Keegan, Saye Khoo, Alan Winston
- 439** **CENTRAL NERVOUS SYSTEM EFFECTS OF THERAPY INITIATION WITH INTEGRASE INHIBITORS**
Anna Prats, Ignacio Martínez-Zalacaín, Beatriz Mothe, Eugènia Negredo, Maite Garolera, Sira Domènech-Puigcerver, Michael Meulbroek, Carmina R. Fumaz, Maria J. Ferrer, Bonaventura Clotet, Carles Soriano-Mas, **Jose A. Muñoz-Moreno**, for the ARBRE Study Group

Themed Discussion TD-13 HBV: RACING HIV FOR THE CURE**Room 6C****1:30 PM - 2:30 PM****Themed Discussion Leader****Debika Bhattacharya**, University of California Los Angeles, Los Angeles, CA, USA

- 624** **HEPATITIS B CURE IN HIV PATIENTS IS MORE LIKELY IN HISPANICS AND THOSE WITH AIDS**
Mamta K. Jain, Paul Parisot, Gabriella Go, Trung T. Vu, Karen J. Vigil, Barbara S. Taylor

625 HIGH RATES OF HBV FUNCTIONAL CURE AMONG HIV/HBV-COINFECTED PATIENTS ON ART IN ZAMBIA
Belinda V. Chihota, Gilles Wandeler, Roma Chilengi, Lloyd Mulenga, Raymond T. Chung, Debika Bhattacharya, Matthias Egger, Michael J. Vinikoor, for the IeDEA Southern Africa

626 HEPATITIS B VIROLOGIC FAILURE OF TENOFOVIR-BASED THERAPIES IN PATIENTS WITH HIV/HBV
 Helen L. Zhang, **Meredith Mock**, Lane R. Bushman, Peter L. Anderson, Andrew J. Muir, Jennifer J. Kiser, Susanna Naggie

627 HIV LATE PRESENTATION AND ITS IMPACT ON HBV SEROCONVERSION IN HBV/HIV
Christoph Boesecke, Christian Hoffmann, Stefan Mauss, Thomas Lutz, Patrick Ingiliz, Christoph D. Spinner, Stefan H. Scholten, Florian Berger, Stephan Schneeweiss, Fabian Busch, Clara Lehmann, Gerd Fätkenheuer, Jürgen K. Rockstroh, for the DZIF HBV HIV Cohort

628 ABSENCE OF HBV REACTIVATION IN HIV/HCV/HBCAB COINFECTED PATIENTS TREATED WITH DAA
Maddalena Cerrone, Francesca Ferretti, Ryan Whyte, Mimie Chirwa, Mark Nelson

Themed Discussion TD-14 PrEP IN FITS AND STARTS
Room 6AB 1:30 PM - 2:30 PM

Themed Discussion Leader

James A. McIntyre, Anova Health Institute, Johannesburg, South Africa



960 CHANGES IN KIDNEY FUNCTION AMONG MSM INITIATING ON-DEMAND TDF/FTC FOR HIV PrEP
Geoffroy Liegeon, Guillemette Antoni, Gilles Pialoux, Laurent Cotte, Cécile L. Tremblay, Catherine Capitant, Eric Cua, François Raffi, Eric Senneville, Pierre Charbonneau, Soizic Le Mestre, Veronique Dore, Laurence Meyer, Jean-Michel Molina, for the ANRS IPERGAY Study Group

961 POINT-OF-CARE CREATININE TESTING WITHIN A PROGRAMMATIC PrEP DELIVERY SETTING
Jillian Pintye, Felix Abuna, John Kinuthia, Harrison Lagat, Kenneth K. Mugwanya, Julia Dettinger, Emily R. Begnel, Marline Serede, Joseph Sila, Jared Baeten, Grace John-Stewart, for the PrEP Implementation for Young Women and Adolescents (PriYA) Program

962 IMMEDIATE PrEP INITIATION AT NEW YORK CITY SEXUAL HEALTH CLINICS
Tarek Mikati, Kelly Jamison, Demetre C. Daskalakis

963 PrEP PERSISTENCE AND DISCONTINUATIONS IN A COHORT OF YOUNG BLACK MSM IN ATLANTA, GA
David P. Serota, Eli Rosenberg, Annie M. Lockard, Carlos del Rio, Nicole Luisi, Scott R. Cutro, Charlotte-Paige M. Rolle, Aaron J. Siegler, Travis Sanchez, Patrick S. Sullivan, Colleen F. Kelley

964 LOW UPTAKE OF PREEXPOSURE PROPHYLAXIS AMONG KENYAN ADOLESCENT GIRLS AT RISK OF HIV
Lynda M. Oluoch, Nelly R. Mugo, Alison C. Roxby, Anna Wald, Stacy Selke, Amalia Magaret, Kenneth Ngure, Murugi Micheni, Steven Gakuo, Bhavna Chohan, Catherine Kiptinness

Themed Discussion TD-15 TREAT ALL: TREAT FAST**Room 6E****1:30 PM - 2:30 PM****Themed Discussion Leader****Mohammed Limbada**, *Zambia AIDS Related TB Project (Zambart), Lusaka, Lusaka, Zambia***1017 OUTCOMES OF "TEST AND START" AT SCALE WITHIN HAITI'S NATIONAL ART PROGRAM****Nancy Puttkammer**, Kesner Francois, Yrvel Desir, Gracia Desforjes, Nadjy Joseph, Nathaelf Hyppolite, Jean Guy Honore, Jean Solon Valles, Ermane Robin, Patrice Joseph**1018 SAME-DAY ART INITIATION IN THE SLATE TRIAL IN KENYA: PRELIMINARY RESULTS**Alana T. Brennan, Bruce Larson, Isaac Tsikhutsu, Margaret Bii, Matthew P. Fox, Willem D. Venter, Mhairi Maskew, Lungisile Zezi, **Sydney Rosen****1019LB WITHDRAWN/INTENTIONALLY UNASSIGNED**Alana T. Brennan, Bruce Larson, Isaac Tsikhutsu, Margaret Bii, Matthew P. Fox, Willem D. Venter, Mhairi Maskew, Lungisile Zezi, **Sydney Rosen****1020 IMPLEMENTING UTT IN AFRICAN CORRECTIONAL FACILITIES: A PROSPECTIVE COHORT STUDY****Michael Herce**, Christopher Hoffmann, Katherine Fielding, Steph Topp, Harry Hausler, Helene Smith, Lucy Chimoyi, Candice Chetty-Makan, Rachek Mukora, Mpho Tlali, Abraham Olivier, Monde Muyoyeta, Stewart Reid, Salome Charalambous**1024 PATIENT-REPORTED REASONS FOR DECLINING IMMEDIATE ART INITIATION IN LUSAKA, ZAMBIA****Jake Pry**, Jenala Chipungu, Carolyn Bolton Moore, Jacob Mutale, Helene Smith, Theodora Savory, Michael Herce**1022 UPTAKE OF ANTIRETROVIRAL THERAPY IN THE "TREAT ALL" ERA IN RIO DE JANEIRO, BRAZIL****Leila H. Chaisson**, Juliana Domenico, Valeria Saraceni, Richard D. Moore, Jonathan Golub, Betina Durovni**Symposium S-7 NEW CELLS ON THE BLOCK****Room 6C****4:00 PM - 6:00 PM****Target Audience:** This session is directed to clinicians and scientists who are interested in understanding the importance of recently described immune cells and novel immune functions at the intersection between innate and adaptive immunity.**Level of Knowledge:** It is assumed that the participants are familiar with basic concepts of cellular immunology**Objectives:** At the completion of the session, participants will be able to:

- Identify newly defined immune cells and their role in HIV infection
- Describe newly identified links between innate and adaptive immunity
- Describe the importance of sampling tissues

Conveners**Caroline Tiemessen**, *National Institute of Communicable Diseases, Johannesburg, South Africa***Johan K. Sandberg**, *Karolinska Institute, Stockholm, Sweden***154 TISSUE-RESIDENT MEMORY CD8+ CELLS**

4:00

Michael R. Betts, *University of Pennsylvania, Philadelphia, PA, USA*

155 **MECHANISMS UNDERLYING LOSS OF ILCs IN HIV/SIV-INFECTED INDIVIDUALS**

4:30

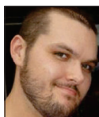
Jason Brenchley, National Institute of Allergy and Infectious Diseases, Bethesda, MD, USA



156 **MEMORY NK CELLS AS NOVEL EFFECTORS AGAINST HIV AND SIV**

5:00

R. Keith Reeves, Harvard Medical School, Boston, MA, USA



157 **HIV SUPPRESSION BY CD8+ LYMPHOCYTES**

5:30

Deanna Kulpa, Emory University, Atlanta, GA, USA



Symposium S-8 TOUGH QUESTIONS IN ANTIRETROVIRAL THERAPY MANAGEMENT

CME

Room 6AB

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians and scientists who are interested in understanding current challenges and questions regarding antiretroviral treatment for people living with HIV.

Level of Knowledge: It is assumed that the participants have an understanding of the principles of antiretroviral therapy and the antiretroviral agents that are commonly used to treat HIV infection.

Objectives: At the completion of the session, participants will be able to:

- Describe the trends in obesity and ART and impact on inflammation
- Describe HIV neurocognitive decline, the aging brain, and neurodegenerative disease
- Enumerate HIV diagnostic dilemmas in the setting of PrEP
- Describe 2-drug ART for initial therapy and maintenance

Conveners

Jennifer Hoy, Alfred Hospital and Monash University, Melbourne, Victoria, Australia



Georg Behrens, Medizinische Hochschule Hannover, Hannover, Germany



158 **OBESITY: A GROWING PROBLEM IN ANTIRETROVIRAL THERAPY**

4:00

John R. Koethe, Vanderbilt University, Nashville, TN, USA



159 **I KEEP FORGETTING: HIV, AGING, AND COGNITIVE DISORDERS**

4:30

Victor Valcour, University of California San Francisco, San Francisco, CA, USA



160 **PrEP FAILURES: DIAGNOSIS, RESISTANCE, AND TREATMENT**

5:00

Jean-Michel Molina, Hôpital Saint-Louis, Paris, France



161 **CAN TWO DRUGS TANGO: THE ROLE OF DUAL THERAPY**

5:30

Laura Waters, Mortimer Market Centre, London, UK



Symposium S-9 GIRLS AND BOYS JUST WANT TO HAVE FUN: MAKING PREVENTION DESIRABLE FOR YOUTH

CME

Room 6E

4:00 PM - 6:00 PM

Target Audience: This session is directed to clinicians, HIV prevention scientists, counselors, and community members.

Level of Knowledge: It is assumed that the participants are familiar with basic epidemiology of HIV.

Objectives: At the completion of the session, participants will be able to:

- List the issues around and strategies for engaging youth
- Frame prevention, treatment, and community
- Describe barriers that arise from practitioner attitudes about sexuality

Conveners

Kawango Agot, *Impact Research and Development Organization, Kisumu City, Kenya*

Kwame Shanaube, *Zambart, Lusaka, Zambia*



162 YOUNG TRANSGENDER INDIVIDUALS

4:00

Asa Radix, *Callen-Lorde Community Health Center, New York, NY, USA*



163 ENGAGING YOUNG WOMEN IN SUB-SAHARAN AFRICA

4:30

Sinead Delany-Moretlwe, *Wits Reproductive Health and HIV Institute, Johannesburg, South Africa*



164 MAKING PREVENTION WORK FOR YMSM: BRIDGING REAL-WORLD NEEDS THROUGH DIGITAL ENGAGEMENT

5:00

Lisa Hightow-Weidman, *University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*



165 DON'T LEAVE THEM BEHIND: HETEROSEXUAL YOUNG AFRICAN MEN

5:30

Webster Mavhu, *Centre for Sexual Health and HIV/AIDS Research Zimbabwe, Harare, Zimbabwe*



POSTER SESSIONS BY DAY

TUESDAY MARCH 5, 2019

Poster P-A1 EARLY EVENTS

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 166 ENTRY KINETICS OF GLOBALLY REPRESENTATIVE AND VERTICALLY TRANSMITTED HIV ENVELOPES**
Nicholas E. Webb, Nicole Tobin, Grace M. Aldrovandi
- 167 CD4-DEPENDENT MODULATION OF HIV-1 ENTRY BY LY6E**
 Jingyou Yu, Chen Liang, **Shan-Lu Liu**
- 168 ELUCIDATING MECHANISMS BY WHICH MUTATIONS IN ENV CONTRIBUTE TO HIV-1 DRUG RESISTANCE**
Rachel Van Duyn, Phuong Pham, Jonathan Spindler, Ann Wiegand, Mary F. Kearney, Eric O. Freed
- 169 NONRANDOM GENERATION OF DELETIONS WITHIN HIV PROVIRAL SEQUENCES IN VIVO**
Bonnie Hiener, Bethany A. Horsburgh, Vincent Morcilla, Eunok Lee, Susanne von Stockenstrom, Jeffrey M. Milush, Teri Liegler, Rebecca Hoh, Rémi Fromentin, Nicolas Chomont, Steven G. Deeks, Frederick M. Hecht, Sarah Palmer, Robert Lanfear
- 170 HOST FACTORS INFLUENCE SIV AND HIV-1 INFECTION AND SENSITIVITY TO CAPSID INHIBITORS**
 Rachel Scheck, Augustin P. Twizerimana, Zeli Zhang, Dieter Häussinger, **Carsten Münk**

Poster P-A2 VIRAL RESTRICTION

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 171 VPX INDUCES AN IFN-RELATED INNATE IMMUNE RESPONSE DISTINCT FROM SAMHD1 ABROGATION**
Maria Pujantell, Eva Riveira-Muñoz, Alba Ruiz, Roger Badia, Bonaventura Clotet, Jose A. Este, Ester Ballana
- 172 EVOLUTION-GUIDED STUDIES TO UNDERSTAND THE ANTIVIRAL MECHANISM OF IFITM3**
Kazi Rahman, Alex A. Compton
- 173 ERAP2 ADMINISTRATION REDUCES IN VITRO PBMC SUSCEPTIBILITY TO HIV-1-INFECTION**
Irma Saulle, Salomè Valentina Ibba, Cecilia Vittori, Claudio Fenizia, Federica Piancone, Davide Minisci, Elisa Maria Lori, Daria Trabattoni, Mario Clerici, Mara Biasin
- 174 INCREASED SAMHD1 CORRELATES WITH ISGS IN HIV-1- INFECTED PATIENTS**
Maura Statzu, Letizia Santinelli, Claudia Pinacchio, Giancarlo Ceccarelli, Ivano Mezzaroma, Ombretta Turriziani, Vincenzo Vullo, Guido Antonelli, Gabriella d'Ettorre, Carolina Scagnolari
- 175 SCHLAFEN 14 (SLFN14) INHIBITS TRANSCRIPTION OF HIV-1 BY TARGETING P-TEFB**
Chen Shumin, Shan Cen

Poster P-B1 HIV AND LYMPH NODES

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 196 IP-10 PRODUCTION BY THE LYMPH NODES MEDIATES ENTRY OF SIV-SPECIFIC CXCR3+CD8+ T CELLS**
Antonio Valentin, Eric Ramirez, Hrishikesh Pandit, Ashli Earl, Kate E. Broderick, Niranjana Sardesai, George N. Pavlakis, **Barbara K. Felber**
- 197 LYMPH NODE TREG SUBSETS ARE EXPANDED IN SOME HIV+ PEOPLE ON SUPPRESSIVE ART**
Joy M. Folkvord, Lishomwa C. Ndhlovu, Brooks I. Mitchell, Fredrick Yost, Martin McCarter, Amie Meditz, Cecilia M. Shikuma, Elizabeth Connick
- 198 DENDRITIC CELLS CROSSTALK WITH FOLLICULAR CD8+ T-CELLS IN HIV-INFECTED LYMPH NODES**
Beatriz Dominguez-Molina, Sara Ferrando-Martinez, Rebeca S de Pablo-Bernal, Fernando D. Docobo, Manuel Leal, Richard A. Koup, **Ezequiel Ruiz-Mateos**
- 199 LONGITUDINAL DYNAMICS OF FOLLICULAR CD4+ T CELLS IN ACUTE SIV INFECTION**
Leticia Kuri Cervantes, Claire Deleage, Emily Roberts, Heidi M. Gunzelman, Diane G. Carnathan, Guido Silvestri, Michael R. Betts
- 200 LB CYTOLYTIC HIV-SPECIFIC CD8+ T CELLS DO NOT RECIRCULATE THROUGH TISSUES**
Marcus Buggert, Son Nguyen, Sam Darko, Amy Ransier, Gustavo Reyes-Terán, Daniel Douek, Yoav Dori, Ian Frank, Max G. Itkin, Michael R. Betts

Poster P-B2 INTO AND OUT OF THE GUT

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 201 MICROBIAL TRANSLOCATION MEASURED BY CONFOCAL ENDOMICROSCOPY IN HIV-INFECTED PATIENTS**
Elvira Couto Jaime, Flor Etcheverry, Constanza Lucero, Yoko Alenyar, Lorna Leal, Irene Fernandez, Yolanda Romero, Manel E. Bargalló, Martin Goetz, Josep Bombi, Maria Pellise, Maria Lopez-Ceron, Montserrat Plana, Nuria Climent, Felipe Garcia
- 202 ISOLATION OF TRANSLOCATING BACTERIA IN PROGRESSIVE SIV INFECTION OF RHESUS MACAQUES**
Jacob Flynn, Alexandra Ortiz, Jason Brenchley
- 203 SYNERGY BETWEEN TH1 AND TH22 IMPAIRS TH17 CELLS RECRUITMENT TO THE GUT ON ART**
Manon Nayrac, Mary Requena, Claire Loiseau, Maud Mavigner, Fatima L'Faqihi, Nicolas Carrere, Bertrand Suc, Jacques Izopet, Pierre Delobel
- 204 THE ROLE OF CS1 FIBRONECTIN IN HIV-1 INFECTION OF GUT-HOMING T CELLS**
David A. Plotnik, Wenjin Guo, Brad Cleveland, **Shiu-Lok Hu**
- 205 INFLAMMATION WITHIN THE SMALL INTESTINE IS ASSOCIATED WITH IMMUNE RECONSTITUTION**
Robert C. Güerri-Fernández, Netanya S. Utay, Zhong-Min Ma, Surinder Mann, Talía Sainz, Marjorie Pion, Richard Pollard, Alan Landay, David M. Asmuth
- 206 ALTERED GUT IMMUNITY IN IMMUNOLOGICAL NONRESPONDERS PARTLY RESTORED BY PROBIOTICS**
Malin H. Meyer-Myklestad, Martin Kummen, Birgitte Stiksrud, Kristian Holm, Anne Ma D. Riise, Dag Kvale, Ingebjørg Seljeftot, Marius Troseid, Johannes R. Hov, Asle W. Medhus, Dag Henrik Reikvam

207 INCREASED ADENOSINE SIGNALING WITH DIPYRIDAMOLE DECREASES GUT MUCOSAL TREG FREQUENCY

Bernard J. Macatangay, Edwin Jackson, Kaleab Abebe, Ashley Myerski, Cynthia Klamar-Blain, Delbert Gillespie, Diane Comer, Kyle Holleran, Karin L. Klingman, Charles Rinaldo, Ian McGowan, Sharon Riddler

Poster P-B3 IMMUNOPATHOGENESIS**Poster Hall - 4EF****2:30 PM - 4:00 PM****208 PD-1HI CD4+ T CELLS ARE ASSOCIATED WITH REDUCED HIV-SPECIFIC RESPONSES**

Bernard J. Macatangay, Rajesh T. Gandhi, R. Brad Jones, Deborah McMahon, Allison S. Thomas, Christina Lalama, Ronald Bosch, Luann Borowski, Evelyn Hogg, Joseph J. Eron, John W. Mellors, Charles Rinaldo, for the ACTG A5321 Study Team

209 PROPORTION OF SIV-INFECTED MEMORY T HELPER SUBSETS CORRELATED TO SIZE OF POPULATION

Stephen Lai, Jason Brechley, Joseph Mudd

210 LB NATURAL HOSTS OF SIV EMPLOY UNIQUE DNA METHYLATION PROGRAMS TO SILENCE THE CD4 GENE

Joseph Mudd, Stephen Lai, Jacob Flynn, Molly Perkins, Carly Elizabeth C. Starke, Maarten Leerkes, Vanessa Hirsch, Mark Cameron, Jason Brechley

211 HIV-1 INFECTION IS ASSOCIATED WITH INCREASED USP18 AND DAMPENED TYPE 1 IFN RESPONSES

Sho Sugawara, Ramy El-Diwany, Joel Blankson, David L. Thomas, Andrea Cox, Ashwin Balagopal

212 SINGLE HOUSING OF MACAQUES INCREASES THE IMMUNE IMPACT OF SIV INFECTION

Selena Guerrero-Martin, Kirstin McGee, Leah H. Rubin, Suzanne E. Queen, Erin Shirk, Ming Li, Brandon Bullock, David Graham, Chistine Zink, Lucio Gama, Robert J. Adams, Janice E. Clements, Joseph Mankowski, **Kelly A. Metcalf Pate**

213 ORAL CYTOKINE EXPRESSION IS LINKED TO ORAL HIV-1 LEVELS IN ACTG A5254

Joseph Rocco, Zachary York, Janet McLaughlin, Luann Borowski, Jennifer Webster-Cyriaque, Caroline H. Shiboski, Judith Aberg, Charles Rinaldo, Bernard J. Macatangay

214 HIV INFECTION AND SMOKING DEFERENTIALLY REGULATE ALVEOLAR MACROPHAGES

Charles P. Neff, Thomas Campbell, Andrew Fontenot, Brent E. Palmer

215 HUMAN INFECTION WITH ZONOTIC SIMIAN FOAMY VIRUSES: ALTERED CD4 AND CD8 T LYMPHOCYTES

Antoine Gessain, Thomas Montange, Edouard Betsem, Chaneline Bilounga Ndongo, Richard Njouom, **Florence Buseyne**

216 CHARACTERIZATION OF PLASMA METABOLITE PROFILE IN HIV+ PERSONS WITH OR WITHOUT IRIS

Luxin Pei, Kiyoshi Fukutani, Brian Ingram, John Luster, Andrea Lisco, Maura Manion, Elizabeth Laidlaw, Bruno Andrade, Irini Sereti

217 EXTRACELLULAR VESICLE-ASSOCIATED CYTOKINES IN HIV-INFECTED HUMAN EX VIVO TONSILS

Vincenzo Mercurio, Wendy Fitzgerald, Leonid Margolis

- 218 MASSIVE RELEASE OF PLATELET-DERIVED EXTRACELLULAR VESICLES DURING HIV INFECTION**
Eva Poveda, Andrés Tabernilla, Marta Grandal, Alexandre Pérez, Ángel Salgado, Hortensia Álvarez, Ana Mariño, Nieves Valcarce, Juan González-García, Félix Gutiérrez, Manuel Crespo, Ezequiel Ruiz-Mateos, Michael M. Lederman, Michael L. Freeman, for the ECRIS integrated in the Spanish AIDS Research Network
- 219 IN VIVO MODEL FOR HBV/HIV COINFECTION STUDIES**
 Weimin Wang, Raghubendra S. Dagur, Edward Makarov, Yimin Sun, Catherine L. Gebhart, Murali L. Ganesan, Natalia Osna, **Larisa Y. Poluektova**
- 220 AN EARLY DECLINE IN HIV ANTIBODY BREADTH PREDICTS MORE RAPID DISEASE PROGRESSION**
Oliver Laeyendecker, Kai Kammers, Athena Chen, Mariya V. Sivay, Brandon Sie, Tiezheng Yuan, Divya Mohan, Sanjay Kottapalli, Tomasz Kula, Charles S. Morrison, Stephen Elledge, Ron Brookmeyer, Ingo Ruczinski, H. Benjamin Larman, Susan H. Eshleman

Poster P-C1 AIDS MALIGNANCIES: KAPOSI SARCOMA AND KSHV

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- 268 KSHV-ASSOCIATED MORTALITY IN HIV-INFECTED SOUTH AFRICANS WITH SUSPECTED TUBERCULOSIS**
Melissa J. Blumenthal, Charlotte Schutz, David Barr, Vickie Marshall, Denise Whitby, Arieh Katz, Thomas S. Uldrick, Graeme Meintjes, Georgia Schäfer
- 269 KAPOSI SARCOMA—ASSOCIATED HERPESVIRUS IN AN HIV-INFECTED COHORT, SOUTH AFRICA**
Elizabeth M. Etta, Lufuno G. Mavhandu-Ramarumo, George Gachara, Denise Tebit, Wendell Miley, Vickie Marshall, Denise Whitby, Pascal O. Bessong
- 270 PRIMARY ROLE OF KSHV IN PATHOGENESIS OF ENDEMIC AND EPIDEMIC KAPOSI SARCOMA**
Salum J. Lidenge, For Yue Tso, Andrew V. Kossenkov, Owen Ngalamika, John R. Ngowi, Yasaman Mortazavi, Eun Hee Kwon, Danielle M. Shea, Veenu Minhas, Julius Mwaiselage, Paul M. Lieberman, Charles Wood, John T. West
- 271 METABOLIC ABNORMALITIES IN CD8 T CELLS FROM HIV+ INDIVIDUALS WITH KAPOSI SARCOMA**
Genevieve T. Clutton, Michael McGrath, Toby Maurer
- 272 SINGLE CELL EVALUATION OF KAPOSI SARCOMA TUMORS REVEALS COMPLEX IMMUNE INFILTRATE**
Warren Phipps, David Coffey, Yuexin Xu, James Kafeero, Peter Mooka, Lazarus Okoche, Diana Basemera, Britta Flach, Andrea Towleron, Edus H. Warren
- 273 NEW VARIANT OF KAPOSI SARCOMA—ASSOCIATED HERPESVIRUS IN MEN WHO HAVE SEX WITH MEN**
Aude Jary, Valentin Leducq, Nathalie Desiré, Romain Palich, Veronique Joly, Ana Canestri, Adélie Gothland, Sidonie Lambert, Pierre-Marie Girard, Corinne Amiel, Diane Descamps, Jean-Philippe Spano, Christine Katlama, Vincent Calvez, Anne-Geneviève Marcelin

274 ANTIRETROVIRAL THERAPY AND KAPOSI SARCOMA TRENDS AND OUTCOMES IN LATIN AMERICA

Jessica L. Castilho, Ahra Kim, Cathy Jenkins, Beatriz Grinsztejn, Eduardo Gotuzzo, Valeria I. Fink, Denis Padgett, Pablo F. Belaunzaran-Zamudio, Brenda Crabtree-Ramírez, Juliana Netto, Claudia P. Cortes, Alexandre Grangeiro, Bryan E. Shepherd, Catherine McGowan, for the Caribbean, Central and South America network for HIV epidemiology (CCASAnet)

275 KAPOSI SARCOMA INCIDENCE BETWEEN 2010 AND 2015 IN THE FRENCH DAT/AIDS COHORT

Isabelle Poizat-Martin, Alain Makinson, Camelia Protopopescu, Antoine Chéret, Marc-Antoine Valantin, David Rey, Claudine Duvivier, Christine Jacomet, Tristan Ferry, Clotilde Allavena, Thomas Huleux, Firouze Bani-Sadr, Véronique Obry-Roquet, Patricia Carrieri, for the Dat/AIDS study group

Poster P-D1 PRECLINICAL AND CLINICAL VACCINE TRIALS**Poster Hall - 4EF****2:30 PM - 4:00 PM****293 LONG BOOST INTERVALS OF ALVAC-HIV/AIDS VAX B/E INCREASED GENITAL HIV ENV IGG RESPONSES**

Siriwat Akapirat, Supachai Rerks-Ngarm, Punnee Pitisutthithum, Sorachai Nitayaphan, Suwat Chariyalertsak, Sanjay Phogat, Faruk Sinangil, Jean-Louis Excler, Merlin L. Robb, Nelson L. Michael, Jerome H. Kim, Nicos Karasavvas, Sandhya Vasani, Robert J. O'Connell, for the RV305 and RV306 Study Groups

294 A VACCINE TARGETING HIV MATURATION PROTECTS AGAINST VAGINAL SIVMAC251 ACQUISITION

Hongzhao Li, Qingsheng Li, Eva Rakasz, Nancy Schultz-Darken, Maria J. Alonso, James Whitney, Francis Plummer, **Ma Luo**, for the Dr. Ma Luo's group

295 SIV- AND HIV-SPECIFIC IMMUNE RESPONSES ELICITED BY PIV5 PRIME/VLP BOOST VACCINATION

Biao He, Peng Xiao, Krista Dienger-Stambaugh, Michelle Robillard, Karnail Singh, Francois Villinger, **Paul Spearman**

296 NOVEL ANTIGEN ELICITS BROADLY NEUTRALIZING ANTI-HIV MONOCLONAL ANTIBODIES IN MICE

Jinhua Xiang, James H. McLinden, Qing Chang, Thomas M. Kaufman, Jack T. Stapleton

297 LB TRANSCRIPTOMIC HOST RESPONSES TO RHCMV/SIV VACCINATION IN RHESUS MACAQUES

Connor Driscoll, Richard Green, Monica Rojas-Peña, Fredrik Barrenas, Jean Chang, Elise Smith, Lynn Law, Jan Komorowski, Scott Hansen, Louis J. Picker, Michael Gale

Poster P-D2 NOVEL THERAPEUTIC INTERVENTIONS INCLUDING EARLY ART**Poster Hall - 4EF****2:30 PM - 4:00 PM****298 EARLY ART PARTLY REDUCES HIV-INDUCED MUCOSAL B-CELL HYPERACTIVATION**

Alexandra Schuetz, Yuwadee Phuang-Ngern, Carlo Sacdalan, Suchada Sukhumvittaya, Eugène Kroon, Rungsun Rerknimitr, Robin L. Dewar, Nitiya Chomchey, Rapee Trichaviroj, Nittaya Phanuphak, Merlin L. Robb, Nelson L. Michael, Mark de Souza, Jintanat Ananworanich, for the RV254/SEARCH 010 and RV304/SEARCH 013 Study Groups

- 299 IMPROVED CD4 T CELLS RESPONSES WITH EARLY TREATMENT DURING PRIMARY HIV INFECTION**
Camille Lecuroux, Remonie Seng, Asier Saez-Cirion, Veronique Avettand-Fenoel, Jean-Paul Viard, Delphine Lebrasseur, Claudine Duvivier, Alain A. Venet, Christine Rouzioux, Cécile Goujard, Laurence Meyer, **Antoine Chéret**
- 300 EFFECT OF TELMISARTAN GIVEN AT ART INITIATION IN AHI ON IMMUNE CELLS IN LYMPH NODES**
Suprahee Buranapraditkun, Hiroshi Takata, Eugène Kroon, Suthat Chottanapund, Carlo Sacdalan, Somporn Tipsuk, Khunthalee Benjapornpong, Bessara Nuntapinit, Timothy Schacker, Nicolas Chomont, Merlin L. Robb, Jintanat Ananworanich, Serena S. Spudich, Lydie Trautmann, for the on behalf of the SEARCH018/RV408 Study group
- 301 METFORMIN TREATMENT IN NONDIABETIC HIV-INFECTED INDIVIDUALS ON ART**
Delphine Planas, Rosalie Ponte, Amelie Pagliuzza, Augustine Fert, Laurence Raymond Marchand, Annie Gosselin, Franck P. Dupuy, Vikram Mehraj, Maged P. Ghali, Sylvie Lesage, Jonathan Angel, Eric A. Cohen, Nicolas Chomont, Petronela Ancuta, Jean-Pierre Routy
- 302 METFORMIN THERAPY WITH IMMUNE CHECKPOINT INHIBITORS IMPACTS ANTI-HIV T-CELL RESPONSES**
Glen M. Chew, Dominic Chow, Scott A. Souza, Danielle M. Clements, Michael J. Corley, Alina P. Pang, Alan J. Korman, Mariana Gerschenson, Cecilia M. Shikuma, Lishomwa C. Ndhlovu
- 303 ZINC SUPPLEMENTATION AND INFLAMMATION IN TREATED HIV**
Sahera Dirajjal-Fargo, Jiao Yu, Manjusha Kulkarni, Abdus Sattar, Nicholas Funderburg, Grace A. McComsey
- 304 GLYCOMIC DETERMINANTS OF INTERFERON- α MEDIATED REDUCTION OF HIV PERSISTENCE IN VIVO**
Leila B. Giron, Florent Colomb, Andrew V. Kossenkov, Karam Mounzer, Sherry Wang, Jay Kostman, Pablo Tebas, Una O'Doherty, Livio Azzoni, Emmanouil Papasavvas, Luis Montaner, Mohamed Abdel-Mohsen

Poster P-E01 CHARACTERIZING HIV RESERVOIRS

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- 326 LIPIDOMIC FINGERPRINTING TO IDENTIFY HIV RESERVOIRS IN VITRO AND IN VIVO**
Christina Gavegnano, Yong Jiang, Sijia Tao, Ruby Kleinbard, Anush Arakelyan, Andrea Lisco, Irini Sereti, Leonid Margolis, Raymond F. Schinazi
- 327 CHARACTERIZING THE HIV DNA RESERVOIRS IN WHOLE-BODY TISSUES IN THE "LAST GIFT" COHORT**
Michelli Faria de Oliveira, Benjamin Murrell, Thomas Vollbrecht, Susanna Concha-Garcia, Venkatesh Kumar, Magali Porrachia, Brianna Scott, Laura Layman, Caroline Ignacio, Sara Gianella, Davey M. Smith
- 328 CD4 T-CELL SUBSETS RESPOND DIFFERENTLY TO LATENCY REVERSAL AGENTS**
Judith Grau-Expósito, Laura Luque-Ballesteros, Adrià Curran, Joaquin Burgos, Esteban Ribera, Ariadna Torrella, Bibiana Planas, Rosa Badía, Vicenç Falcó, María J. Buzón

- 329 HIV-TRANSCRIPTION INDUCES CD20 EXPRESSION AND RENDERS CELLS SUSCEPTIBLE TO RITUXIMAB**
Carla Serra Peinado, Judith Grau-Expósito, Laura Luque-Ballesteros, Antonio Astorga Gamaza, Rein Willekens, Jordi Navarro, Adrià Curran, Joaquin Burgos, Esteban Ribera, Josep Castellví, Meritxell Genescà, Vicenç Falcó, María J. Buzón
- 330 HIV-INFECTED CD4 T-CELL ISOLATION USING A MICROFLUIDIC MAGNETIC LEVITATION SYSTEM**
 N. Gozde Durmus, Kaushik Sridhar, Erica Gibson, Cassandra Thanh, Rakhi Gupta, Maya Ball-Burack, Steven G. Deeks, Utkan Demirci, **Timothy J. Henrich**
- 331 A NEW PUBLIC DATABASE FOR NEAR FULL-LENGTH HIV SINGLE-GENOME SEQUENCES**
Wei Shao, Jigui Shan, Wei-Shau Hu, Elias K. Halvas, Brian Luke, John W. Mellors, John M. Coffin, Mary F. Kearney
- 332 TRANSCRIPTOMIC CORRELATES OF HIV RESERVOIR SIZE DURING ANTIRETROVIRAL THERAPY**
Wim Trypsteen, Mohamed Abdel-Mohsen, Xutao Deng, Christopher D. Pilcher, Steven G. Deeks, Linos Vandekerckhove, Satish K. Pillai
- 333 EX VIVO CD4+ T-CELL DIFFERENTIATION IMPROVES HIV RESERVOIR QUANTIFICATION**
Elizabeth R. Wonderlich, Krupa Subramanian, Ann Wiegand, Carol Lackman-Smith, Michael J. Bale, Mars Stone, Peter Bacchetti, Frank Maldarelli, Michael P. Busch, Roger Ptak, Mary F. Kearney, Deanna Kulpa
- 334 CYTOF CHARACTERIZATION OF THE IN VIVO LATENT HIV RESERVOIR IN BLOOD AND TISSUES**
 Jason Neidleman, Xiaoyu Luo, Grace Xie, Rebecca Hoh, Peter W. Hunt, Steven G. Deeks, Warner C. Greene, Marielle Cavrois, **Nadia R. Roan**
- 335 TREASURE HUNT: HIV DNA IN DISTINCT SUBSETS IN THE BLOOD, TERMINAL ILEUM, AND RECTUM**
Max Augustin, Carola Horn, Meryem S. Ercanoglu, Vincent Bondet, Isabelle Suarez, Seung-Hun Chon, Dirk Nierhoff, Elena Knops, Eva Heger, Mark Oette, Florian Klein, Gerd Fätkenheuer, Darragh Duffy, Michaela Müller-Trutwin, Clara Lehmann
- 336 PROPORTION OF INDUCIBLE AND INTACT HIV-1 IN BLOOD IS REFLECTIVE OF LYMPH NODES**
Alyssa R. Martin, Alexandra M. Bender, Kyungyoon J. Kwon, Diane M. Brown, Niraj Desai, Dorry Segev, Thomas C. Quinn, Aaron Tobian, Christine Durand, Andrew D. Redd, Robert Siliciano
- 337 LB GENUINE HIV-1 RESERVOIRS FORM IN URETHRAL MACROPHAGES OF ART-SUPPRESSED PATIENTS**
 Yonatan Ganor, Fernando Real, Alexis Sennepin, Charles-Antoine Dutertre, Eliseo Eugenin, Remi Cheynier, Marc Revol, Sarra Cristofari, Anne Hosmalin, **Morgane Bomsel**

Poster P-E02 STRUCTURE AND LOCATIONS OF PROVIRUSES ON ART
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- 338 A METHOD TO DETERMINE BOTH THE INTEGRATION SITES AND SEQUENCES OF HIV-1 PROVIRUSES**
Sean Patro, Leah D. Brandt, Michael J. Bale, Elias K. Halvas, Michele Sobolewski, Jenna Hasson, Aurelie Niyongabo, Xiaolin Wu, Shuang Guo, Steven G. Deeks, Stephen H. Hughes, John M. Coffin, Jason W. Rausch, John W. Mellors, Mary F. Kearney

- 339 DISTINCT CHROMOSOMAL POSITIONS OF INTACT HIV-1 PROVIRUSES**
Kevin Einkauf, Guinevere Q. Lee, Ce Gao, Radwa Sharaf, Xiaoming Sun, Stephane Hua, Samantha M. Chen, Chenyang Jiang, Xiaodong Lian, Fatema Z. Chowdhury, Eric Rosenberg, Tae-Wook Chun, Jonathan Z. Li, Xu G. Yu, Mathias Lichterfeld
- 340 RELATIONSHIP BETWEEN INTACT HIV-1 PROVIRUSES AND PLASMA REBOUND VIRUSES**
Ching-Lan Lu, Joy A. Pai, Lilian Nogueira, Pilar Mendoza, Marina Caskey, Mila Jankovic, Michel Nussenzweig
- 341 LANDSCAPE OF HIV-1 INTEGRATION SITES IN LYMPHOID TISSUE FROM ART-TREATED INDIVIDUALS**
Vincent H. Wu, Christopher L. Nobles, Leticia Kuri Cervantes, Perla Del Río-Estrada, Gustavo Reyes-Terán, Frederic Bushman, Michael R. Betts
- 342 GENETIC AND AGE DISTRIBUTION OF LATENT HIV SEQUENCES IN CD4+ T-CELL SUBSETS**
 Rachel Miller, Bradley R. Jones, Olivia Tsai, Bemuluyigza Baraki, Natalie Kinloch, Hanwei Sudderuddin, Hawley Rigsby, Art Poon, Rémi Fromentin, Nicolas Chomont, Jeffrey Joy, **Zabrina Brumme**

Poster P-E03 HIV RESERVOIR CELLS, PROVIRAL LANDSCAPE, AND REBOUND VIRUS

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- 343 B CELL – T CELL DOUBLETS IN GALT ARE ENRICHED FOR TFH CELLS BUT NOT FOR HIV DNA**
John P. Thornhill, Matthew Pace, Genevieve E. Martin, Carolina Herrera, Jonathan Hoare, Simon Peake, Helen Brown, Nneka Nwokolo, Julie Fox, Sarah Fidler, John Frater, for the the CHERUB Investigators'
- 344 CD38+CXCR3+ TFH CELLS SERVE AS ACTIVE HIV RESERVOIR IN THE TOTAL TFH CELL POPULATION**
Alessandra Noto, Madeleine Suffiotti, Francesco Procopio, Khalid Ohmiti, Jean-Marc Corpataux, Matthias Cavassini, Raphael Gottardo, Craig Fenwick, Giuseppe Pantaleo
- 345 RESIDENT MEMORY T CELLS ARE A CELLULAR RESERVOIR FOR HIV IN THE CERVICAL MUCOSA**
Jon Cantero, Judith Grau-Expósito, Carla Serra Peinado, Daniela A. Rosero, Laura Luque-Ballesteros, Josep Castellví, Tamara Sanhueza, Julia G Prado, Antoni Tarrats, Carla Lecumberri, Laura Mañalich-Barrachina, Cristina Centeno-Mediavilla, Vicenç Falcó, María J. Buzón, Meritxell Genescà
- 346 CD32+CD4+ T CELLS ARE ENRICHED IN HIV DNA**
Gilles Darcis, Neeltje A. Kootstra, Berend Hooibrink, Thijs van Monfort, Kevin Groen, Suzanne Jurriaans, Margreet Bakker, Carine Van Lint, Ben Berkhout, Alexander Pasternak
- 347 DIFFERENT T-CELL SUBSETS CONTAIN INTACT PROVIRUSES IN BLOOD AND LYMPH NODE DURING ART**
Bonnie Hiener, Katie Fisher, Bethany A. Horsburgh, Timothy E. Schlub, Vincent Morcilla, John-Sebastian Eden, Susanne von Stockenstrom, Jeffery Milush, Teri Liegler, Rebecca Hoh, Rémi Fromentin, Nicolas Chomont, Steven G. Deeks, Frederick M. Hecht, Sarah Palmer

- 348 PERSISTENT HIV LOW-LEVEL VIREMIA CAN ARISE FROM AN ACTIVE PROVIRAL CLONE**
Xin Zhang, **Radwa Sharaf**, Behzad Etemad, Ce Gao, Kevin Einkauf, Sigal Yawetz, Guinevere Q. Lee, Jackson W. Lau, Zixin Hu, Colline Wong, Alexandra Rosenthal, Daniel R. Kuritzkes, Athe Tsibris, Mathias Lichterfeld, Jonathan Z. Li
- 349 PREDICTING HIV REBOUND IN VIVO BASED ON EX VIVO CD4+ T CELL LATENCY DISRUPTION**
Jason M. Hataye, Joseph P. Casazza, Alan S. Perelson, Richard A. Koup
- 350 LB VRC01 EPI TOPE MOTIFS PREDICTED REBOUND KINETICS AFTER VRC01/TREATMENT INTERRUPTION**
Evan Cale, Meera Bose, Hongjun Bai, Michael Messina, Donn J. Colby, Nittaya Phanuphak, Nelson L. Michael, Merlin L. Robb, Nicole Doria-Rose, Trevor A. Crowell, John R. Mascola, Jintanat Ananworanich, Sodsai Tovanabutra, **Morgane Rolland**, for the RV397 Study Group

Poster P-F1 HAND: BIOMARKERS, RISKS, PREVALENCE

Poster Hall - 4EF

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- 407 EARLY INFLAMMATORY PROFILES IN LONG-TERM VIRALLY SUPPRESSED WOMEN PREDICTS COGNITION**
Raha Dastgheyb, Dionna W. Williams, Yanxun Xu, Kathryn Fitzgerald, Xuzhi Wang, Sheila Keating, Philip J. Norris, Robert C. Kaplan, Pauline M. Maki, Norman J. Haughey, Seble Kassaye, Deborah Gustafson, Victor Valcour, **Leah H. Rubin**
- 408 LONGITUDINAL PHENOTYPING OF DECLARATIVE MEMORY AMONG WOMEN LIVING WITH HIV**
Kathryn Fitzgerald, Pauline M. Maki, Yanxun Xu, Wei Jin, Gayle Springer, Kathryn Anastos, Deborah Gustafson, Seble Kassaye, Victor Valcour, Leah H. Rubin
- 409 CAPTURING DNA METHYLATION CHANGES IN MONOCYTES WHEN INITIATING ART IN ACUTE HIV**
Michael J. Corley, Carlo Sacdalan, Elizabeth Laws, Nitiya Chomchey, Alina P. Pang, Nisakorn Ratnaratorn, Ivo N. SahBandar, Victor Valcour, Eugène Kroon, Robert Paul, Merlin L. Robb, Jintanat Ananworanich, Lishomwa C. Ndhlovu, for the SEARCH010/RV254 and SEARCH013/RV304 study groups
- 410 PLASMA (1→3)-B-D-GLUCAN LEVELS CORRELATE WITH NEUROCOGNITIVE PERFORMANCE IN HIV**
Martin Hoenigl, Scott L. Letendre, Jennifer Iudicello, Donald Franklin, Magali Porrachia, Milenka Vargas, Ronald J. Ellis, Malcolm Finkelman, Sara Gianella
- 411 LB NEURON-DERIVED EXOSOMES IDENTIFY COGNITIVE IMPAIRMENT AND GENDER DIFFERENCES IN HIV**
Lynn Pulliam, Nicole Fernandes, Bing Sun
- 412 REDUCED SCYLLO-INOSITOL CORRELATES WITH NEUROCOGNITIVE IMPAIRMENT IN HIV+ INDIVIDUALS**
Kalpana J. Kallianpur, Cecilia M. Shikuma, Anna Wang, Liangjie Lin, Robert Paul, Lindsay Kohorn, Michelle L. D'Antoni, Louie Mar A. Gangcuangco, Peter B. Barker
- 413 LEGACY EFFECTS ON COGNITIVE FUNCTIONS AMONG HIV-INFECTED MEN**
Yang Qu, Zheng Wang, Yu Cheng, Lawrence Kingsley, Andrew Levine, Eileen Martin, Cynthia Munro, Ann B. Ragin, Leah H. Rubin, Ned W. Sacktor, Eric C. Seaberg, James T. Becker, for the Neuropsychology Working Group of the Multicenter AIDS Cohort Study

- 414 CLUSTER ANALYSIS OF COGNITIVE FUNCTIONING IN HIV+ AND HIV- SUBJECTS**
Lillian Ham, Joseph Snow, Brian K. Agan, Bryan Smith, Avindra Nath, Seung Hyun Won, Xiuping Chu, Elizabeth F. Horne, Gina Norato, Tracyann Mburu, for the Neuro-HIV Research Consortium
- 415 ALZHEIMER'S DEMENTIA CEREBROSPINAL FLUID BIOMARKERS IN HIV-POSITIVE PATIENTS ON cART**
Mattia Trunfio, Caterina Martini, Lorenzo Mighetto, Daniela Vai, Daniele Imperiale, Stefano Bonora, Giovanni Di Perri, Andrea Calcagno
- 416 CSF HIV-SPECIFIC T CELLS PERSIST DURING ART AND ASSOCIATE WITH LOWER CNS INFLAMMATION**
Caroline Subra, Faria Fatmi, Supraanee Buranapraditkun, Phillip Chan, Carlo Sacdalan, Kamonkan Tangnaree, Morgane Rolland, Shelly J. Krebs, Napapon Sailasuta, Sodsai Tovanabutra, Nelson L. Michael, Jintanat Ananworanich, Serena S. Spudich, Lydie Trautmann
- 417 CSF HIV-TAT AS A BIOMARKER OF NEUROCOGNITION AND AGING IN HIV-INFECTED PATIENTS**
Bryan Smith, Lisa Henderson, Alina Popescu, Elizabeth F. Horne, Ulisses Santamaria, Eliezer Masliah, Joseph Snow, Avindra Nath, Ankit Saxena, John P. McCoy, for the Neuro-HIV Research Consortium
- 418 NEUROCOGNITION, FRAILTY, AND MORTALITY AMONG PERSONS AGING WITH HIV AND SUBSTANCE USE**
Damani A. Piggott, Ola A. Selnes, Jason Creighton, Shruti H. Mehta, Ned W. Sacktor, Gregory D. Kirk
- 419 ASSOCIATIONS BETWEEN PLASMA NRTI CONCENTRATIONS AND COGNITIVE FUNCTION**
Davide De Francesco, Jonathan Underwood, Emmanouil Bagkeris, Daphne S. Babalis, Xinzhu Wang, Laura Dickinson, Saye Khoo, Marta Boffito, Caroline Sabin, Alan Winston, for the POPPY study group
- 420 VARIABILITY IN COGNITIVE IMPAIRMENT OVER TIME IN PEOPLE WITH HIV AND MATCHED CONTROLS**
Davide De Francesco, Caroline Sabin, Jonathan Underwood, Magnus Gisslén, Ferdinand Wit, Rosan van Zoest, Judith Schouten, Ben Schmand, Peter Portegies, Peter Reiss, Alan Winston, for the Co-morbidity in Relation to AIDS (COBRA) collaboration
- 421 ASSOCIATION BETWEEN NEUROFILAMENT LIGHT PROTEIN AND IMPAIRED COGNITION IN TREATED HIV**
Elizabeth F. Horne, Ulisses Santamaria, Ankit Saxena, Edmund C. Tramont, Stanley Rapoport, Joseph Snow, Chuen-Yen Lau, John P. McCoy, Avindra Nath, Bryan Smith, for the Neuro-HIV Consortium
- 422 SCD14, SICAM-1, AND SVCAM-1 CORRELATE WITH NEUROCOGNITIVE FUNCTION IN YOUTH WITH HIV**
Julie J. Kim-Chang, Matthew S. Loop, Kevin Donovan, Suzi Hong, Bernard Fischer, Guglielmo Venturi, Patricia A. Garvie, Jordan Kohn, H. Jonathon Rendina, Steven P. Woods, Maureen Goodenow, Sharon Nichols, John W. Sleasman, for the Adolescent Medicine Trials Network (ATN) for HIV/ AIDS Interventions
- 423 METABOLOMIC PROFILING OF HIV PATIENTS WITH AND WITHOUT HIV-ASSOCIATED DEMENTIA**
Andrea Mastrangelo, Magnus Gisslén, Richard W. Price, Filippo Turrini, Roberta Caccia, Leonid Gorelik, Bestetti Arabella, Adriano Lazzarin, Cinque Paola

- 424 IMPAIRED COGNITION PREDICTS FALLS AMONG HIV+ AND HIV- WOMEN**
Anjali Sharma, David Vance, Donald R. Hoover, Qiuhi Shi, Michael T. Yin, Susan Holman, Michael Plankey, Phyllis Tien, Kathleen M. Weber, Michelle Floris-Moore, Hector Bolivar, Elizabeth T. Golub, Marica M. Holstad, Leah H. Rubin, for the Women's Interagency HIV Study
- 425 HIV-ASSOCIATED NEUROCOGNITIVE DISORDER LEADS TO DEATH**
 Deanna Saylor, Gertrude Nakigozi, Noline Nakasujja, Alice Kisakye, Aggrey Anok, Richard Mayanja, James Batte, Kevin Robertson, Ronald H. Gray, Maria Wawer, **Ned W. Sacktor**
- 426 ANEMIA AND NEUROCOGNITIVE IMPAIRMENT: A LONGITUDINAL MULTICOHORT STUDY**
Oluwakemi Okwuegbuna, Asha R. Kallianpur, Jennifer Iudicello, Ajay Bharti, Ronald J. Ellis, Allen McCutchan, Scott L. Letendre

Poster P-G1 OBJECTIVE ASSESSMENT OF ADHERENCE FOR PrEP AND ART

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- 461 PI DRUG-LEVEL TESTING AS A SCREENING TOOL FOR DRUG RESISTANCE IN 2ND-LINE ART FAILURE**
Lucas E. Hermans, Kim Steegen, Rob ter Heine, Rob Schuurman, Hugo Tempelman, Robert Moraba, Erik Maarseveen, Taryn Pillay, Derryn Legg-Esilva, Jonathan M. Schapiro, David M. Burger, Sergio Carmona, Annemarie Wensing
- 462 PLASMA EFV AND TFV VS DRIED BLOOD SPOT TFV-DP TO PREDICT VIRAL SUPPRESSION IN WOMEN**
Tamsin K. Phillips, Phumla Sinxadi, Elaine J. Abrams, Allison Zerbe, Nai-Chung Hu, Yolanda Gomba, Kirsty Brittain, Jennifer Norman, Lubbe Wiesner, Landon Myer, Gary Maartens
- 463 TENOFOVIR DIPHOSPHATE IN DRIED BLOOD SPOTS FOLLOWING ESCALATING TAF/FTC DOSING**
Jenna Yager, Jose R. Castillo-Mancilla, Mustafa E. Ibrahim, Kristina M. Brooks, Cricket McHugh, Samantha MaWhinney, Mary Morrow, Scott McCallister, Lane R. Bushman, Jennifer J. Kiser, Peter L. Anderson
- 464 VALIDATION OF A URINE TFV IMMUNOASSAY FOR REAL-TIME PrEP AND ART ADHERENCE TESTING**
Monica Gandhi, Peter Bacchetti, Hideaki Okochi, Matthew A. Spinelli, Jared Baeten, Warren Rodrigues, Guohong Wang, Michael Vincent, Rachel W. Kubiak, Yardpiroon Tawon, Virat Klinbuayaem, Pra-ornsuda Sukrakanchana, Oraphan Siriprakaisil, Tim R. Cressey, Paul K. Drain
- 465 URINE FTC AND TFV CONCENTRATIONS AS POTENTIAL BIOMARKERS FOR ARV ADHERENCE**
Richard Haaland, Tamee Livermont, Jeffrey Fountain, Chuong Dinh, Amy Martin, Davis Lupo, LaShonda Hall, Christopher Conway-Washington, Colleen F. Kelley

Poster P-H6 WOMEN AND HIV: ARE OUTCOMES DIFFERENT?

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- 516 DEPRESSION IS A STRONGER PREDICTOR OF EXECUTIVE DYSFUNCTION IN HIV+ WOMEN THAN MEN**
Leah H. Rubin, Gayle Springer, Eileen Martin, Eric C. Seaberg, Ned Sacktor, Andrew Levine, Victor Valcour, Mary Young, James T. Becker, Pauline M. Maki

- 517 GENDER AND COINFECTIONS CONTRIBUTE TO IMMUNE ACTIVATION IN TREATED HIV INFECTION**
Gwoon Son, Daniel Habermann, Trevor A. Crowell, Allahna L. Esber, Leigh Anne Eller, Michael A. Eller, Ajay Parikh, Yakubu Adamu, Francis Kiweewa, Merlin L. Robb, Nelson L. Michael, Daniel Hoffmann, Christina Polyak, Julie Ake, Hendrik Streeck
- 518 IMPORTANT SEX DIFFERENCES IN OUTCOMES FOR INDIVIDUALS PRESENTING FOR THIRD-LINE ART**
Catherine Godfrey, Michael D. Hughes, Justin Ritz, Robert Gross, Robert A. Salata, Rosie Mngqibisa, Carole Wallis, Mumbi Makanga, Marije Van Schalkwyk, Mitch Matoga, Courtney V. Fletcher, Beatriz Grinsztejn, Ann Collier, for the ACTG 5288 Team
- 519 TENOFOVIR ALAFENAMIDE VS TENOFOVIR DF IN WOMEN: POOLED ANALYSIS OF 7 CLINICAL TRIALS**
Melanie Thompson, Indira Brar, Cynthia Brinson, Catherine Creticos, Debbie Hagins, Ellen Koenig, Claudia Martorell, Cristina Mussini, Laura Waters, Susan Guo, Ya-Pei Liu, Lauren L. Temme, Devi SenGupta, Moupali Das
- 520 EFFECT OF ANTIRETROVIRAL THERAPY AND IMMUNE RECONSTITUTION ON VAGINAL MICROBIOME**
Zoe Packman, Cindy M. Liu, David Serwadda, Fred Nalugoda, Maliha Aziz, Alison Abraham, Jessica Prodger, Rupert Kaul, Ronald H. Gray, Aaron Tobian, Thomas C. Quinn, Steven J. Reynolds

Poster P-H7 ACUTE INFECTION AND HIV TRANSMISSION

Poster Hall - 4EF

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- 521 IMMEDIATE ART INITIATION IN ACUTE INFECTION IMPROVES CLINICAL OUTCOMES, SABES STUDY**
Javier R. Lama, Rachel A. Bender Ignacio, Jorge A. Gallardo-Cartagena, Jessica Rios, Ricardo Alfaro, Karin S. Sosa-Barbaran, Carolyn Bain, Christopher D. Pilcher, Ann Duerr, for the Sabes Study
- 522 VIRAL BLIPS AFTER TREATMENT INITIATION DURING ACUTE HIV INFECTION**
Trevor A. Crowell, Suteeraporn Pinyakorn, Carlo Sacdalan, Eugène Kroon, Donn J. Colby, Suwanna Pattamasavin, Sasiwimol Ubolyam, Rapee Trichavaroj, Oratai Butterworth, Ellen Turk, Corinne McCullough, Mark de Souza, Nittaya Phanuphak, Jintanat Ananworanich, for the RV254/SEARCH010 Study Group
- 523 BENEFITS OF InSTI-BASED REGIMEN AT THE TIME OF PRIMARY HIV INFECTION**
Raphaël Veil, Isabelle Poizot-Martin, Jacques Reynes, Cécile Goujard, Remonie Seng, Pierre Delobel, Laurent Cotte, Claudine Duvivier, David Rey, Laurent Tran, Laure Surgers, Clotilde Allavena, Caroline Lascoux-Combe, **Antoine Chéret**, Laurence Meyer
- 524 RECTAL AND SEMINAL HIV-1 RNA DECAY IN INFECTED MSM INITIATING WITH DTG/ABC/3TC**
Marta Fernández, Vanesa Agulló, José A. García, Sergio Padilla, Javier García-Abellán, Victoria Ortiz de la Tabla, Félix Gutiérrez, **Maria Del Mar Masia**

Poster P-11 RESISTANCE SPREAD AND ITS IMPACT ON ART**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 525 MODELING ANTIRETROVIRAL DRUG RESISTANCE IN SOUTH AFRICA, THE MARISA PROJECT**
Anthony Hauser, Katharina Kusejko, Leigh F. Johnson, Fardo Goldstein, Julien Riou, Gilles Wandeler, Matthias Egger, Roger Kouyos
- 526 INTEGRASE AND OTHER TRANSMITTED HIV DRUG RESISTANCE: 23 US JURISDICTIONS, 2013-2016**
Robert P. McClung, Cheryl B. Ocfemia, Neeraja Saduvala, Alexandra M. Oster, Walid Heneine, Jeffrey A. Johnson, Angela L. Hernandez
- 527 IMPACT OF PRETREATMENT DRUG RESISTANCE ON TREATMENT OUTCOME IN THE ITREMA TRIAL**
Lucas E. Hermans, Laura Marije Hofstra, Rob Schuurman, Rob ter Heine, Hugo Tempelman, Willem D. Venter, Monique Nijhuis, Annemarie Wensing
- 528 INTEGRASE GENOTYPIC TESTING AND DRUG RESISTANCE AMONG NEW HIV DIAGNOSES IN NEW YORK**
Zhengyan Wang, Randall V. Collura, Mark Rosenthal, Jayleen K. Gunn, Joanne Gerber, Brenda Moncur, Bridget J. Anderson
- 529 HIV-TRANSMITTED DRUG RESISTANCE IN CISGENDER MSM AND TRANSGENDER WOMEN IN LIMA, PERU**
William L. Trebelcock, Javier R. Lama, Ann Duerr, Hugo Sanchez, Robinson Cabello, Sari Reisner, Kenneth H. Mayer, James Mullins, Rachel A. Bender Ignacio

Poster P-12 PREVALENCE AND SPREAD OF RESISTANCE**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 530 PRE-TREATMENT HIV DRUG RESISTANCE IN BOTSWANA**
Simani Gaseitsiwe, Sikhulile Moyo, Melissa Zahralban-Steele, Dorcas Maruapula, Tapiwa Nkhisang, Jean Leidner, Ontlametse Bareng, Molly Pretorius Holme, Kara Bennett, Kathleen Wirth, Tendani Gaolathe, Joseph Makhema, Shahin Lockman, Max Essex, Vlad Novitsky
- 531 HIV DRUG RESISTANCE IN ADOLESCENTS AND ADULTS ON SECOND-LINE ART IN KWAZULU-NATAL**
Benjamin Chimukangara, Benn Sartorius, Richard Lessells, Jennifer Giandhari, Kerusha Govender, Nokukhanya Mdlalose, Reshmi Samuel, Kogieleum Naidoo, Tulio de Oliveira, Pravi Moodley, Raveen Parboosing
- 532 FREQUENT DISCORDANCE BETWEEN ETRAVIRINE PHENOTYPE & GENOTYPE IN SUBTYPE cART FAILURE**
Kevin D. McCormick, Kerri J. Penrose, Chanson J. Brumme, P. Richard Harrigan, Raquel V. Viana, John W. Mellors, Urvi Parikh, Carole Wallis
- 533 IN-DEPTH CHARACTERIZATION OF HIV RESISTANCE TO INTEGRASE INHIBITORS IN BRAZIL**
Nazle Veras, Rosana Elisa G. Pinho, Ana R. Pati Pascom, José Boullosa, Fernanda Rick, Adele Benzaken
- 534 HIV DRUG RESISTANCE AMONG PWID IN EASTERN EUROPE AND ASIA, HPTN 074**
Yinfeng Zhang, Philip J. Palumbo, Jessica M. Fogel, Xu Guo, William Clarke, Paul Richardson, Erica Hamilton, Ngo T. Hoa, Kostyantyn Dumchev, Zubairi Djoerban, Irving Hoffman, Brett Hanscom, William C. Miller, Susan H. Eshleman, for the HPTN 074 Study Team

- 535 INI-RESISTANCE DYNAMICS FROM 2007 TO 2017 IN ITALIAN CLINICAL ISOLATES**
Daniele Armenia, Caterina Gori, Ada Bertoli, Vanni Borghi, Alessandra Latini, Roberta Gagliardini, Miriam Lichtner, Federica Forbici, Francesco Montella, Cristina Mussini, Massimo Andreoni, Andrea Antinori, Francesca Ceccherini Silberstein, Carlo Federico Perno, Maria M. Santoro
- 536 ANTIRETROVIRAL DRUG RESISTANCE IN PATIENTS RECEIVING CARE AT ETHIOPIAN HEALTH CENTERS**
Anton Reepalu, **Dawit A. Assefa Arimide**, Per Bjorkman, Patrik Medstrand
- 537 BASELINE HIV DRUG RESISTANCE AMONG TREATMENT-NAIVE PATIENTS IN ESWATINI, MAXART TRIAL**
Shaukat Khan, Anita Hettema, Fiona Walsh, Sikhathele Mazibuko, Velephi Okello, Charlotte Lejeune, Jilian Sacks, Michael R. Jordan, John Koo, P. Richard Harrigan, Chanson J. Brumme, Hope R. Lapointe
- 538 MODELING THE IMPACT OF DOLUTEGRAVIR INTRODUCTION ON NNRTI RESISTANCE IN SOUTH AFRICA**
Anthony Hauser, Katharina Kusejko, Leigh F. Johnson, Huldrych F. Günthard, Julien Riou, Gilles Wandeler, Matthias Egger, Roger Kouyos

Poster P-K1 HCV THERAPEUTICS: REALITY TESTING

Poster Hall - 4EF

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- 560 A REAL-WORLD STUDY OF EFFICACY AND SAFETY OF GLECAPREVIR/PIBRENTASVIR IN HCV PATIENTS**
Marcello Persico, Andrea Aglitti, Michele Milella, Carmine Coppola, Vincenzo Messina, Ernesto Claar, Ivan Gentile, Paola Pierri, Lorenzo Antonio Surace, Filomena Morisco, Paolo Tundo, Giuseppina Brancaccio, Nicola Coppola, Annamaria Longo, Mario Masarone
- 561 GRAZOPREVIR/ELBASVIR FOR HCV-INFECTED PWID IN REAL-WORLD SETTINGS: THE ZEPALIVE STUDY**
Juan Macías, Luis Morano, Francisco Téllez, Maria J. Rios-Villegas, Rafael Granados, Antonio Collado, Carlos Galera, Francisco Vera, Dolores Merino, Ignacio Santos, Oscar Rincón, Juan A. Pineda, for the HEPAVIR and GEHEP study groups. GEHEP-001 project
- 562 REAL-WORLD DATA ON ELBASVIR/GRAZOPREVIR FOR HCV INFECTION IN HIV/NON-HIV PATIENTS**
Maria Luisa Montes, **Juan Berenguer**, Ángela Gil-Martín, Adriana Ahumada, Teresa Aldámiz-Echevarría, José L. Calleja, Agustín Albillos, Antonio Oliveira, Maria Jesus Tellez Molina, Lourdes Domínguez-Domínguez, Conrado Fernández Rodríguez, José Sanz, Inma Jarrin, María J. Calvo, Juan González-García
- 563 EFFECTIVENESS OF HEPATITIS C TREATMENT IN HIV/HCV COINFECTED PATIENTS IN MYANMAR**
Derek Johnson, **Htay Thet Mar**, Phone Thit, Tobias Homan, Phyu Ei Mon, Kyi Pyar Soe, Win Le Shwe Sin Ei, Khin Sanda Aung, Thin Thin Thwe, Nyan Lynn Tun, Kyaw Zay Lwin, Aude Nguyen, Anne Loarec
- 564 HCV LATE RELAPSE IN PATIENTS WITH DIRECTLY ACTING ANTIVIRAL-RELATED SVR 12**
Carmine Minichini, Mariantonietta Pisaturo, Mario Starace, Caroprese Mara, Margherita Macera, Giuseppina Brancaccio, Stefania De Pascalis, Alfonso Galeota Lanza, Rosa Zampino, Evangelista Sagnelli, Giovanni Battista Gaeta, Nicola Coppola, Antonella Santonicola

- 565 CLINICAL OUTCOMES IN PERSONS COINFECTED WITH HIV AND HCV: IMPACT OF HCV TREATMENT**
Lars Peters, Amanda Mcroft, Jens D. Lundgren, Jan Gerstoft, Line D. Rasmussen, Sanjay Bhagani, Inka Aho, Christian Pradier, Johannes Bogner, Jürgen K. Rockstroh, Cristina Mussini, Adriano Lazzarin, Fernando Maltez, Montse Laguno, Gilles Wandeler, for the EuroSIDA Study
- 566 INTERFERON-FREE REGIMENS IMPROVE RENAL FUNCTION IN PATIENTS WITH CHRONIC HEPATITIS C**
 Nicola Coppola, **Federica Portunato**, Antonio Riccardo Buonomo, Laura Staiano, Riccardo Scotto, Biagio Pinchera, Stefania De Pascalis, Salvatore Martini, Mariantonietta Pisaturo, Daniela Caterina Amoruso, Guglielmo Borgia, Carmine Coppola, Ivan Gentile
- 567 PCSK9 LEVELS DECLINE WITH HCV DIRECT-ACTING ANTIVIRAL THERAPY IN HIV/HCV COINFECTION**
Malini M. Gandhi, Kim-Lien Nguyen, Jordan E. Lake, Diana Liao, Mario Guerrero, Wilbert C. Jordan, Eric Daar, Debika Bhattacharya, Kara W. Chew
- 568 LIVER STIFFNESS AT SVR PREDICTS HEPATIC COMPLICATIONS IN HCV-INFECTED PATIENTS**
Anaïs Corma-Gómez, María Iglesias, Francisco Téllez, Luis Morano, Antonio Rivero-Juárez, María J. Rios-Villegas, Marta Santos, Francisco Vera, Jesus Santos, Rafael Granados, Dolores Merino, Ignacio d. Santos Gil, Juan Macías, Juan A. Pineda, for the Proyecto GEHEP-011
- 569 INFLAMMATION, ARTERIAL STIFFNESS, AND DIRECTLY ACTING ANTIVIRALS IN HCV AND HIV/HCV**
 Sonika Malik, Ruchi Bisen, Melissa Osborn, Sanjay Gandhi, Grace A. McComsey, **Corrilynn O. Hileman**
- 570 EFFECT OF LIVER FIBROSIS STAGE AND DAA TREATMENT ON RISK OF CVD EVENTS IN ERCHIVES**
Adeel A. Butt, Peng Yan, Samia Aslam, Obaid S. Shaikh
- 571 LIVER FIBROSIS HINDERS T-CELL HOMEOSTASIS RESTORATION AFTER HCV ERADICATION WITH DAAs**
 Beatriz Álvarez, Andrea García, Clara Restrepo, Marcial García, María Ángeles Navarrete, Victoria M. de Santisteban, José Ligos, Alfonso Cabello, Laura Prieto, Sara Nistal, María Montoya, Miguel Górgolas, Norma Rallón, **José Miguel Benito**
- 572 IMPACT OF DIRECT-ACTING ANTIVIRALS ON RATES OF HCC IN HCV- AND HIV-INFECTED PATIENTS**
Taiwo A. Ajose, Michael Flood

Poster P-K2 HCV THERAPEUTICS: MOVING FROM TREATING THE PERSON TO TREATING THE POPULATION

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- 573 BARRIERS TO INITIATING DAA THERAPY IN HCV/HIV COINFECTED PATIENTS**
Taiwo A. Ajose, Austin Chan
- 574 PROGRESS TOWARDS HCV MICRO-ELIMINATION IN AN URBAN HIV-INFECTED COHORT**
Oluwaseun Falade-Nwulia, Catherine Sutcliffe, Shruti H. Mehta, Juhi Moon, Geetanjali Chander, Jeanne C. Keruly, Jennifer Katzianer, Richard D. Moore, Mark Sulkowski

- 575 NETWORK-BASED RECRUITMENT FOR HEPATITIS C THERAPY AMONG PEOPLE WHO INJECT DRUGS**
Oluwaseun Falade-Nwulia, Shruti H. Mehta, Kathleen Ward, Stephanie Katz, Geetanjali Chander, Sean McCormick, Carl A. Latkin, Mark Sulkowski
- 576 CAN'T BUY ME LOVE? OBSTACLES TO MICRO-ELIMINATION OF ACUTE HCV COINFECTION IN EUROPE**
Christoph Boesecke, Mark Nelson, Patrick Ingiliz, Thomas Lutz, Stefan H. Scholten, Christiane Cordes, Maria Martínez-Rebollar, Christoph D. Spinner, Michael Rausch, Sanjay Bhagani, Lars Peters, Thomas Reiberger, Stefan Mauss, Jürgen K. Rockstroh, for the PROBE-C study group
- 577 HCV REINFECTION RISK FOLLOWING DAA THERAPY IN PEOPLE LIVING WITH HIV IN AUSTRALIA**
Samira Hosseini Hooshyar, Marianne Martinello, Sofia Bartlett, Robert Finlayson, David Baker, Mark Bloch, Joseph S. Doyle, David Shaw, Phillip Read, Jasmine Yee, Lanni Lin, Tanya Applegate, Margaret Hellard, Gregory J. Dore, Gail Matthews
- 578 CARE FACILITATION FOR HIV/HCV COINFECTED INCREASES MOVEMENT ON THE HCV CARE CASCADE**
Lisa R. Metsch, Daniel J. Feaster, Carmen L. Masson, David C. Perlman, Lauren Gooden, Tim Matheson, Susan Tross, C. Mindy Nelson, Felipe A. Muñoz, Raul Mandler, Gregory M. Lucas, Meg Sullivan, Mamta K. Jain, Petra Jacobs, Carlos del Rio
- 579 HEPATITIS C TESTING OF TRAUMA SURGERY PATIENTS: INCIDENCE, PREVALENCE, & CARE CASCADE**
 Jenna M. Wick, Josue Oyola-Jimenez, Davone Singleton, Samantha Webster, David M. Fleece, Jill Volgraf, Amy J. Goldberg, **Gina M. Simoncini**
- 580 A RANDOMIZED TRIAL OF HIV/HCV NURSE CASE MANAGEMENT FOR LINKAGE TO HCV CARE**
Laura Starbird, Hae-Ra Han, Mark Sulkowski, Chakra Budhathoki, Nancy Reynolds, Jason Farley
- 581 DEMOGRAPHIC TRENDS IN HCV DIAGNOSIS AND LINKAGE TO HCV CARE AMONG JAIL DETAINEES**
Ank E. Nijhawan, Jacqueline Sullivan, Merilyne Aguwa, Esmaeil Porsa
- 582 HEPATITIS C CASCADE OF CARE AMONG PEOPLE WHO INJECT DRUGS IN BRITISH COLUMBIA IN 2017**
Sofia Bartlett, Stanley Wong, Amanda Yu, Maria Alvarez, Terri Buller-Taylor, Zahid A. Butt, Maryam Darvishian, Carmine Rossi, Margo Pearce, Jason Wong, Mark Gilbert, Mark W. Tyndall, Mel Kraijden, Naveed Z. Janjua
- 583 A COMMUNITY INTERVENTION INCREASED HCV SCREENING AND TREATMENT IN KING COUNTY, WA**
John D. Scott, Meaghan Munn, Atar Baer, Sara N. Glick, Elizabeth Barash, Hilary Armstrong, Kris Kowdley, Matthew Messerschmidt, Pallavi Patel, Michael Ninburg, Matthew R. Golden, Jeff Duchin
- 584 LOW PERFORMANCE OF THE ORAQUICK HCV RAPID ANTIBODY TEST IN HIV/HCV-INFECTED PEOPLE**
 Serena Vita, Irene Pozzetto, **Raffaella Marocco**, Ilenia Mastrini, Laura Fondaco, Blerta Kertusha, Valdo Rossi, Pasquale Dolce, Tiziana Tieghi, Claudio M. Mastroianni, Miriam Lichtner
- 585 UTILITY OF HCV CORE ANTIGEN FOR THE DIAGNOSIS OF ACUTE HCV IN HIGH-RISK INDIVIDUALS**
Subathira Dakshina, Diane Reid, Ania Richardson, Chantal Oxenham, Nina Vora, Richard Gilson, Eleni Nastouli, Laura Waters, Sanjay Bhagani, Indrajit Ghosh

586 DIVERSE OBSTETRICIAN HCV-SCREENING PRACTICES IN A LARGE REGIONAL HEALTH CARE SYSTEM

Dawn Fishbein, Ariunzaya Amgalan, Eshetu Tefera, Shari Sawney, Nicole Brown, Emily Paku, Hala Deeb, Stephen Fernandez, Rachel K. Scott

587 TRANSFORMING PRIMARY CARE PRACTICES FOR HEPATITIS C TREATMENT CENTERS

Risha Irvin, Boatemaa Ntiri-Reid, Mary Kleinman, Alexander J. Millman, Lauren Canary, Tracy Agee, Jeffrey Hitt, Onyeka Anaedozie, Hope Cassidy-Stewart, Oluwaseun Falade-Nwulia, Mark Sulkowski, Noele Nelson, David L. Thomas, Michael Melia

588 DECENTRALIZATION AND TASK-SHIFTING FOR HEPATITIS C: SYSTEMATIC REVIEW & META-ANALYSIS

Ena Oru, Steve Kanters, Rohan Shirali, **Philippa J. Easterbrook**

589 THE COST-EFFECTIVENESS OF HCV SCREENING OF PREGNANT WOMEN IN THE UNITED STATES

Antoine Chaillon, Nancy S. Reau, Elizabeth B. Rand, Natasha Martin

590 COST-EFFECTIVENESS OF HCV TREATMENT AMONG HIV-POSITIVE INDIVIDUALS IN MYANMAR

Lara K. Marquez, Antoine Chaillon, Kyi Pyar Soe, Derek Johnson, Jean-Marc Zosso, Andrea Incerti, Anne Loarec, Aude Nguyen, Josephine Walker, Nyashadzaishe Mafirikureva, Peter Vickerman, **Natasha Martin**

Poster P-M1 NOVEL MEASURES AND DRIVERS OF INFLAMMATION AND VASCULAR FUNCTION

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631 ANTI-INFLAMMATORY IL-10 IS INVERSELY RELATED TO CORONARY ATHEROSCLEROSIS IN HIV

Lindsay T. Fourman, Charles Saylor, Lediya Cheru, Kathleen V. Fitch, Tricia H. Burdo, Sara E. Looby, Udo Hoffmann, Michael T. Lu, **Janet Lo**

632 IL-32 Δ AND TRAIL: NEW CARDIOVASCULAR DISEASE BIOMARKERS IN ART-TREATED HIV INFECTION

Mohamed El-Far, Madeleine Durand, Carl Chartrand-Lefebvre, Etienne Larouche-Ancil, Sarah M. Zaidan, Genevieve Chabot-Roy, Rémi Bunet, Mohamed Sylla, Jean-Guy Baril, Petronela Ancuta, Sylvie Lesage, Nicolas Chomont, Robert C. Kaplan, Alan Landay, Cécile L. Tremblay, for the The Canadian HIV and Aging Cohort Study

633 INFLAMMATION-RELATED GENES ARE ASSOCIATED WITH ACCELERATED AGING IN HIV

Erin Sundermann, Mariam Hussain, David J. Moore, Steven Horvath, Andrew Levine, for the HNRP Group

634 IMPACT OF INFLAMMATION AND GUT IMMUNITY ON CORONARY ARTERIAL WALL COMPOSITION

Robert C. Güerri-Fernández, Netanya S. Utay, Zhong-Min Ma, Surinder Mann, Talía Sainz, Marjorie Pion, Alan Landay, Friedrich Knollmann, David M. Asmuth

635 CONTRIBUTION OF HUMAN HERPESVIRUS 8 AND HERPES SIMPLEX 2 TO PROGRESSION OF IMT IN HIV

Fernando Lidón, Sergio Padilla, José A. García, Marta Fernández, Javier García-Abellán, Victoria Ortiz de la Tabla, Félix Gutiérrez, Maria Del Mar Masia, for the Elche

Poster P-M2 COAGULATION ABNORMALITIES IN HIV: WHAT'S THE CLOT GOT TO DO WITH IT?

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- 636 HIV INFECTION AND RISK OF RECURRENT VENOUS THROMBOEMBOLISM: A NATIONAL COHORT STUDY**
Casper Rokx, Jaime Borjas Howard, Colette Smit, Ferdinand Wit, Elise D. Pieterman, Suzanne Cannegieter, Willem Lijfering, Karina Meijer, **Peter Reiss**, Wouter Bierman, Vladimir Tichelaar, Bart Rijnders
- 637 PREDISPOSING FACTORS FOR VENOUS THROMBOEMBOLISM IN HIV-INFECTED PATIENTS**
Mark W. Tenforde, Robin M. Nance, Susan Heckbert, Kristina Crothers, Matthew Budoff, W. C. Mathews, Joseph J. Eron, Richard D. Moore, Michael J. Mugavero, James Willig, Greer Burkholder, Mari Kitahata, Joseph Delaney, **Heidi M. Crane**, for the Centers for AIDS Research Network of Clinical Information Systems
- 638 SHORTER ACTIVATED PARTIAL THROMBOPLASTIN TIME (APTT) IN PEOPLE LIVING WITH HIV**
Asbjørn Fink, Andreas D. Knudsen, Rebekka F. Thudium, Jakob Hjorth von Stemann, Shoaib Afzal, Jens D. Lundgren, Thomas Benfield, Sisse R. Ostrowski, Børge Nordestgaard, Susanne D. Nielsen
- 639 DUAL DRUG-MEDIATED MECHANISM FOR NRTI-ASSOCIATED PLATELET HYPERREACTIVITY**
Kirk A. Taylor, Erica Smyth, Francesca Rauzi, Maddalena Cerrone, Akif A. Khawaja, Brian Gazzard, Mark Nelson, Marta Boffito, Michael Emerson
- 640 PLATELET FUNCTION AFTER DOLUTEGRAVIR AND/OR DARUNAVIR/COBICISTAT IN HEALTHY SUBJECTS**
Kirk A. Taylor, Francesca Ferretti, Maddalena Cerrone, Akif A. Khawaja, Wing Yip, Marta Boffito, Michael Emerson
- 641 DIRECT ORAL ANTICOAGULANT AND ART USAGE IN PLWH: DATA FROM THE DC COHORT**
Safia S. Kuriakose, Jomy M. George, Anne K. Monroe, Qingjiang Hou, Alice K. Pau, Henry Masur, Colleen Hadigan, Amanda D. Castel, Michael A. Horberg, for the DC Cohort Executive Committee

Poster P-N4 INSULIN RESISTANCE IN TREATED HIV

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- 684 ADIPOSE TISSUE CD4+ AND CD8+ T-CELL PROFILES DIFFER BY GLUCOSE TOLERANCE IN HIV**
Celestine Wanjalla, Wyatt J. McDonnell, Louise L. Barnett, Joshua Simmons, Briana Furch, Morgan Lima, Beverly O. Woodward, Mark Pilkinton, Nancy J. Brown, Spyros Kalams, Simon Mallal, John R. Koethe
- 685 FIBROBLAST GROWTH FACTOR 21 (FGF21) IS ELEVATED IN HIV AND AFFECTED BY INFLAMMATION**
Allison Ross Eckard, Mary Ann O'Riordan, Danielle Labbato, Julia C. Kosco, Vanessa El Kamari, Grace A. McComsey

Poster P-N5 BONE DISEASE IN TREATED HIV

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- 686 HAART IS ASSOCIATED WITH REDUCED RISK OF OSTEOPOROSIS-RELATED FRACTURES**
José A. Barletta, Monica Ye, Michelle Lu, Mia Kibel, **Viviane D. Lima**, Oghenowede Eyawo, Julio S. Montaner, Robert S. Hogg, Silvia Guillemi

- 687 EFFECTS OF ERADICATION OF HCV ON BONE MINERAL DENSITY IN HIV/HCV-COINFECTED PATIENTS**
Ana Carrero, **Juan Berenguer**, Victor Hontanon, Josep M. Guardiola, Jordi Navarro, Miguel A. Von Wichmann, Maria Jesus Tellez Molina, Carmen Quereda, Ignacio Santos, José Sanz, Maria J. Galindo, José Hernández-Quero, Juan Carlos López-Bernaldo, José M. Bellón, Juan González-García
- 688 HIV-ASSOCIATED HYPOPARATHYROIDISM: RESULTS FROM A GERMAN HIV COHORT**
Sebastian Noe, Celia Oldenbuettel, Silke Heldwein, Carmen Wiese, Ariane von Krosigk, Farhad Schabaz, Rita Pascucci, Hans Jaeger, Eva Wolf, for the ArchHIV Study Group

Poster P-N6 RENAL DISEASE IN TREATED HIV

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- 689 IMPACT OF RENAL TUBULE FUNCTION ON BONE MINERAL DENSITY IN OLDER PEOPLE WITH HIV**
Elena Alvarez-Barco, Lucy Campbell, Keith Burling, Sebastian Noe, Mingjin Yan, Hiba Graham, Martin Rhee, Patrick W. Mallon, **Frank Post**
- 690 GENETIC AND CLINICAL RISK FACTORS FOR CHRONIC KIDNEY DISEASE IN HIV**
Léna G. Dietrich, Catalina Barcelo, Christian Thorball, Lene Ryom, Stephen R. Cole, Felix Burkhalter, Chantal Csajka, Jacques Fellay, Bruno Ledergerber, Philip E. Tarr
- 691 LYSOSOMAL TOXICITY AS A NOVEL MECHANISM IN TENOFOVIR-ASSOCIATED NEPHROTOXICITY**
Metodi Stankov, Ruisi Lin, Ramachandramouli Budida, Diana Panayotova-Dimitrova, Reinhold E. Schmidt, Georg Behrens
- 692 DYNAMICS OF E-FGR WITH ONE OR MORE ANTIRETROVIRALS THAT INHIBIT CR TUBULAR SECRETION**
Maria Jesus P. Elias, M.Mar Gutierrez, Manuel Crespo, Ignacio Santos, Esteban Ribera, Maria J. Galindo, Fernando Lozano, Antonio Payeras Cifre, Vicente Boix, Marta Montero, José Sanz, Javier De La Torre Lima, Jesus Santos, Sara de la Fuente Moral, Esteban Martinez
- 693 EVOLUTION AND REVERSIBILITY OF RENAL FUNCTION AFTER SWITCH FROM TDF TO TAF REGIMENS**
Roberta Gagliardini, Patrizia Lorenzini, Alessandro Cozzi-Lepri, Nicola Gianotti, Loredana Sarmati, Stefano Rusconi, Emanuela Messina, Amedeo Capetti, Annalisa Saracino, Giordano Madeddu, Antonella D'Arminio Monforte, Andrea Antinori, for the Icona Foundation Study Group
- 694 GLOMERULAR FILTRATION RATE RECOVERY AFTER A SWITCH FROM TDF TO TAF OR ABC**
Rosanne Verwijs, Ingeborg Wijting, Marjo van Kasteren, Jan G. Hollander, den, Inge Derdelinckx, Guido van den Berk, Saskia Vrouwenraets, Mark Claassen, Wouter Bierman, Casper Roxk, Bart Rijnders
- 695 SUBCLINICAL TUBULAR IMPAIRMENT IS COMMON IN ART-TREATED HIV+ PATIENTS IN UGANDA**
Cecilia Costa, Silvia Scabini, Arvind Kaimal, William Kasozi, Jessica Cusato, Olive Mbabazi, John Bosco Kafufu, Erisa S. Mwaka, Giovanni Di Perri, Mohammed Lamorde, **Andrea Calcagno**, Barbara Castelnuevo

Poster P-P1 INTEGRASE INHIBITORS AND NEURAL TUBE DEFECTS

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- 743 NEURAL-TUBE DEFECTS, HIV, AND ANTIRETROVIRALS: BIRTH-DEFECT SURVEILLANCE IN UGANDA**
Linda Barlow-Mosha, Daniel M. Mumphe, Dhelia Williamson, Diana Valencia, Robert Serunjogi, Joyce N. Matovu, Philippa Musoke
- 744 NO INCREASE IN BIRTH DEFECTS IN INFANTS EXPOSED TO INTEGRASE INHIBITORS AT CONCEPTION**
Jeanne Sibiude, Jérôme Le Chenadec, Laurent Mandelbrot, Stephane Blanche, Catherine Dollfus, Nathalie Lelong, Elisa Arezes, Lamy Ait Si Selmi, Sophie Matheron, Christine Rouzioux, Josiane Warszawski, Roland Tubiana, for the ANRS-EPF-CO1/CO11 study groups
- 745 EVALUATION OF NEURAL-TUBE DEFECTS AFTER EXPOSURE TO RALTEGRAVIR DURING PREGNANCY**
Hala H. Shamsuddin, Casey L. Raudenbush, Brittany L. Sciba, Yun-Ping Zhou, T. Christopher Mast, Wayne L. Greaves, George J. Hanna, Ronald Leong, Walter L. Straus
- 746 REPORTS OF NEURALTUBE DEFECTS FOR 8 ARTS, IN FDA, WHO, EMA, AND UK SAFETY DATABASES**
Andrew Hill, Nikolien S. van de Ven, Anton Pozniak, Jacob A. Levi, Anna Garratt, Christopher Redd, Lynne Mofenson
- 747 InSTI EXPOSURE AND NEURAL-TUBE DEFECTS: DATA FROM ANTIRETROVIRAL PREGNANCY REGISTRY**
Jessica D. Albano, Vani Vannappagari, Angela Scheuerle, Heather Watts, Claire Thorne, Leslie Ng, Veronica V. Urdaneta, **Lynne M. Mofenson**
- 748 UGANDAN CLINIC EXPERIENCE FOLLOWING POTENTIAL TERATOGENICITY ALERT FOR DOLUTEGRAVIR**
Arinaitwe S. Arnold, Eva A. Laker Odongpiny, Noela Owarwo, Onzia Annet, Nasasira Benson, Wailagala Abdullah, Ivan Kalule, Anguzu Godwin, Agnes Kiragga, Kay Seden, Barbara Castelnuevo, Isaac Lwanga, Rachel Musomba, Mohammed Lamorde
- 749 SERUM FOLATE AND BIRTH OUTCOMES: DTG VS EFV TRIAL EVIDENCE IN SOUTH AFRICA**
Nomathemba C. Chandiwana, Andrew Hill, Matthew Chersich, Elisha Maharaj, Willem D. Venter, Godspower Akpomiemie, Celicia Serenata, Lee Fairlie, Simiso Sokhela, Masebola Masenya, Michelle A. Moorhouse

Poster P-P2 UNDERSTANDING ANTIRETROVIRAL EXPOSURE AND BIRTH OUTCOMES

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- 750 FETAL BIOMETRY SIMILAR WITH DOLUTEGRAVIR OR EFAVIRENZ EXPOSURE**
Gosego Masasa, Kathleen M. Powis, Samuel W. Kgole, Keolebogile N. Mmasa, Justine Legbedze, Shan Sun, Terence Mohammed, Coulson Kgathi, Joseph Makhema, Francis Banda, Mitchell Geffner, Lynn M. Yee, Lisa B. Haddad, Elaine J. Abrams, Jennifer Jao
- 751 SIMILAR BIRTH ANTHROPOMETRICS WITH IN UTERO EXPOSURE TO DOLUTEGRAVIR OR EFAVIRENZ**
Samuel W. Kgole, Jennifer Jao, Shan Sun, Keolebogile N. Mmasa, Gosego Masasa, Justine Legbedze, Sikhulile Moyo, Coulson Kgathi, Joseph Makhema, Francis Banda, Mitchell Geffner, Mariana Gerschenson, Irwin J. Kurland, Elaine J. Abrams, Kathleen M. Powis

752 ADVERSE BIRTH OUTCOMES AMONG PRENATALLY VS SEXUALLY HIV-INFECTED WOMEN IN BOTSWANA

Christina Fennell, George R. Seage, Rebecca Zash, Kelesitse Phiri, Modiegi D. Diseko, Gloria K. Mayondi, Shahin Lockman, Tumulano Sekoto, Mompoti O. Mmalane, Joseph Makhema, Roger L. Shapiro

753 ADVERSE PREGNANCY OUTCOMES IN HIV-POSITIVE PREGNANT WOMEN ON ART IN KENYA

Lisa L. Abuogi, Maricianah A. Onono, Anna Helova, Kevin Owuor, Tobias Odwar, Karen Hampanda, Thomas A. Odeny, Elizabeth A. Bukusi, Janet M. Turan

754 TIMING OF MATERNAL ANTIRETROVIRAL THERAPY INITIATION AND STILLBIRTH IN MALAWI

Malango T. Msukwa, Olivia Keiser, Andreas Jahn, Joep J. van Oosterhout, Andrew Edmonds, Nozgechi S. Phiri, Ronald Manjomo, Mary-Ann Davies, Janne Estill

755 PRETERM BIRTH AMONG WOMEN WITH ULTRASOUND-BASED GESTATIONAL DATING IN PROMISE 1077BF

Kartik K. Venkatesh, Mona Farhad, Terence Fenton, Dhayendre Moodley, Shilpa Naik, Clemensia Nakabiito, Lee Fairlie, Bonus Makanani, Friday Saidi, Tsungai Chipato, James A. McIntyre, Mary Glenn Fowler, **Benjamin H. Chi**, Jeffrey S. Stringer, for the PROMISE 1077BF team

756 LOPINAVIR (AN HIV PROTEASE INHIBITOR) IMPAIRS UTERINE REMODELING DURING PREGNANCY

Smriti Kala, Caroline Dunk, Lena Serghides

Poster P-Q4 RESPONSE TO ART IN CHILDREN AND YOUTH

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807 POORER CONTROL OF VIRAL LOAD IN PATIENTS INFECTED PERINATALLY VERSUS DURING ADULTHOOD

Jean Joel Bigna, Remonie Seng, Albert Faye, Catherine Dollfus, Pierre Frange, Laura Nailler, Jérôme Le Chenadec, Faroudy Boufassa, Asma Essat, Veronique Avettand-Fenoel, Stephane Blanche, Cécile Goujard, Laurence Meyer, Jean-Paul Viard, **Josiane Warszawski**

808 SLOW CD4/CD8 RATIO RECOVERY AMONG CHILDREN AND ADOLESCENTS DESPITE VIRAL SUPPRESSION

Win Min Han, Tanakorn Apornpong, Watsamon Jantarabenjakul, Sivaporn Gatechompol, Sasiwimol Ubolyam, Stephen J. Kerr, Anchalee Avihingsanon, Kiat Ruxrunghtham, Praphan Phanunphak, Thanyawee Puthanakit

809 UNDERSTANDING THE IMPACT OF ART INTERRUPTION ON THYMIC OUTPUT AND TCR REPERTOIRE

Katrine S. Sandgaard, Teresa Attenborough, Ben Margets, Stuart Adams, Deena Gibbons, Mette Holm, Athina S. Gkazi, Nigel Klein

Poster P-Q5 COMORBIDITIES AND COMPLICATIONS IN CHILDREN AND YOUTH WITH HIV

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810 HIGH CMV DNAEMIA ASSOCIATES WITH STUNTING AND CHRONIC LUNG DISEASE IN HIV+ CHILDREN

Louis-Marie Yindom, Victoria Simms, Edith D. Majonga, Grace McHugh, Ethel Dauya, Tsitsi Bandason, Helene Vincon, Jamie Rylance, Shungu Munyati, Rashida Ferrand, Sarah Rowland-Jones

- 811 IMMUNE IMBALANCE IS ASSOCIATED WITH IMPAIRED SPIROMETRY IN PERINATALLY ACQUIRED HIV**
Engi F. Attia, Denise Jacobson, Wendy Yu, Elizabeth Maleche Obimbo, Paige L. Williams, Claudia Crowell, Michael H. Chung, Kristina Crothers, William T. Shearer, for the Pediatric HIV/AIDS Cohort Study
- 812 ENDOTHELIAL DYSFUNCTION IN SOUTH AFRICAN YOUTH WITH PERINATALLY ACQUIRED HIV ON ART**
Sana Mahtab, Heather Zar, Susan J. Joubert, Nana Akua Asafu-Agyei, Norme J. Luff, Nomawethu Jele, Liesl Zülke, Landon Myer, Jennifer Jao
- 813 EARLY CARDIAC DYSFUNCTION IN HIV-INFECTED CHILDREN AND ADOLESCENTS IN WESTERN KENYA**
Andrew W. McCrary, Winstone Nyandiko, Ibrahim Daud, Elcy Birgen, Joseph Kisslo, Piers Barker, Nathan Thielman, Gerald Bloomfield
- 814 WEIGHT IS AN INDEPENDENT RISK FACTOR IN INSULIN RESISTANCE IN HIV+ UGANDAN CHILDREN**
Sahera Dirajjal-Fargo, Lukasz Weiner, Lingpeng Shan, Manjusha Kulkarni, Christine Karungi, Abdus Sattar, Nicholas Funderburg, Grace Mirembe, Cissy Kityo, Victor Musiime, Grace A. McComsey
- 815 GROWTH AND METABOLIC CHANGES AFTER ANTIRETROVIRAL START IN SOUTH AFRICAN CHILDREN**
Michela Masi Leone, Stephen M. Arpadi, Chloe A. Teasdale, Katharine Yuengling, Nonzwakazi Sogaula, Anthony Mutiti, Mary Mogashoa, Emilia M. Rivadeneira, Elaine J. Abrams, Jennifer Jao
- 816 LOWER BONE STRENGTH BY PERIPHERAL QUANTITATIVE CT IN CHILDREN LIVING WITH HIV**
Stephanie Shiau, Michael T. Yin, Renate Strehlau, Megan Burke, Faezah Patel, Louise Kuhn, Ashraf Coovadia, Shane Norris, Stephen M. Arpadi, for the CHANGES Bone Study Team
- 817 HIV AND CANCER RISK IN ADOLESCENTS AND YOUNG ADULTS IN SOUTH AFRICA, 2004-2014**
Tafadzwa G. Dhokotera, Julia Bohlius, Adrian Spoerri, Matthias Egger, Jabulani Ncayiyana, Gita Naidu, Victor Olago, Elvira Singh, Mazvita Sengayi
- 818 CANCER INCIDENCE IN YOUNG PEOPLE WITH HIV: PRIVACY-PRESERVING RECORD-LINKAGE STUDY**
Eliane Rohner, Lina Bartels, Victor Olago, Wenlong C. Chen, Elvira Singh, Adrian Spoerri, Matthias Egger, Mazvita Sengayi, Julia Bohlius

Poster P-R1 DESCRIPTIVE EPIDEMIOLOGY AND BEHAVIOR

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- 831 RECENT HIV INFECTION SURVEILLANCE AMONG ADOLESCENT GIRLS AND YOUNG WOMEN IN MALAWI**
Danielle Payne, Andrew D. Maher, Kathryn Curran, Elfriede Agyemang, Evelyn Kim, Franklin Kilembe, Trudy Dobbs, Innocent Zungu, Bharat S. Parekh, Suzie Welty, Dalitso Midiani, Andrew F. Auld, Rose Nyirenda, George Rutherford, Andrea A. Kim
- 832 HIV SEROSTATUS CONVERSION AMONG REPEAT-TESTING FEMALE SEX WORKERS IN TANZANIA**
Amasha H. Mwanamsangu, Gaspar Mbita, Kelly Curran, Amani Shao, Raymond Bandio, Nelson Jonas, Friedrich Conrad, Peris Urasa, Erick Mlanga, Jeremie Zoungrana, Maligo Katebalila, Marya Plotkin, Albert Komba, Caterina Casalini

- 833** **QUANTIFYING TRANSMISSIONS FROM AGE GROUPS IN SIMULATIONS OF HPTN071 (POPART) TRIAL**
William Probert, Rafael Sauter, Michael Pickles, Anne Cori, Justin Bwalya, Sian Floyd, Nomtha Mandla, Kwame Shanaube, Blia Yang, Helen Ayles, Peter Bock, Deborah J. Donnell, Sarah Fidler, Richard Hayes, Christophe Fraser
- 834** **COMMUNITY PREVALENCE OF VIREMIA: A NEW STANDARD FOR BIO-BEHAVIORAL SURVEYS**
Sunil S. Solomon, Gregory M. Lucas, Allison M. McFall, Aylur K. Srikrishnan, Oliver Laeyendecker, Muniratnam S. Kumar, Syed Iqbal, Shanmugam Saravanan, Nandagopal Paneerselvam, Pachamuthu Balakrishnan, David D. Celentano, Shruti H. Mehta
- 835** **HIV EPIDEMIC IN A BRIDGE POPULATION IN UKRAINE CALLS FOR NEW PREVENTION STRATEGIES**
Marina Kornilova, Yana Sazonova
- 836** **LOW CROSS-SECTIONAL HIV-1 INCIDENCE AT END OF BOTSWANA “YA TSIE” PREVENTION STUDY**
Sikhulile Moyo, Simani Gaseitsiwe, Corretah Boleo, Julia Huesa, Kenanao P. Kotokwe, Molly Pretorius Holme, Tendani Gaolathe, Kara Bennett, Jean Leidner, Kathleen Wirth, Janet Moore, Shahin Lockman, Joseph Makhema, Max Essex, Vlad Novitsky
- 837** **BEHAVIORAL AND SEROLOGICAL FINDINGS OF THE KADUNA STATE AIDS INDICATOR SURVEY, 2017**
Adebobola T. Bashorun, Aishat B. Usman, Mark Anthony, Taiwo Ibinaiye, Abisola Oladimeji, Titi Olugbade, Mustapha Jamda, Patrick Nguku
- 838** **CANGO LYEC (HEALING THE ELEPHANT): HIV INCIDENCE IN POSTCONFLICT NORTHERN UGANDA**
Samuel S. Malamba, **David S. Zamar**, D. Martin Ogwang, Anton Friedman, Kate Jongbloed, Herbert Muyinda, ACHILLES KATAMBA, Nelson Sewankambo, Martin T. Schechter, Patricia M. Spittal
- 839** **HIV, COINFECTIONS, AND RISK BURDEN AMONG PRISONERS AND STAFF: UGANDA NATIONAL SURVEY**
Lisa A. Mills, Samuel Sendagala, James Kisambu, Rose N. Bosa, Patrick Omiel Okecho, Bruce J. Kirenga, Samuel Wasike, Robert Downing, Brad Bartholow, Mary N. Kaddu, Lisa J. Nelson, Shona Dalal
- 840** **QUANTIFYING DELAY IN HIV PROGRAMME ACCESS AMONG YOUNG FEMALE SEX WORKERS IN KENYA**
Huiting Ma, Marissa Becker, Parinita Bhattacharjee, Helgar Musyoki, Peter B. Gichangi, Robert Lorway, Linwei Wang, Shajy Isac, James F. Blanchard, Sharmistha Mishra
- 841** **LITTLE OR NO OVERLAP OF SEXUAL NETWORKS OF TRANSGENDER WOMEN AND MSM IN LIMA, PERU**
Jessica E. Long, Hugo Sanchez, Dania Calderon Garcia, Leyla Huerta Castillo, Javier R. Lama, Ann Duerr
- 842** **FACTORS ASSOCIATED WITH HIV SEROPOSITIVITY AMONG HIGH-RISK MEN IN TANZANIA**
Maneno Luponya, Caterina Casalini, Ankita Mehta, Peter Nyanda, Yeronimo Mlawa, Neema Makyao, Angela Ramhadani, Erick Mlanga, Jason Reed, Maligo Katebalila, Marya Plotkin, Albert Komba, Jeremie Zoungrana, Kelly Curran

- 843 HIV EPIDEMIC POTENTIAL IN SEXUAL NETWORKS OF MSM IN SAN FRANCISCO AND ATLANTA**
Emeli J. Anderson, Kevin M. Weiss, Pragati Prasad, Samuel Jenness
- 844 TRENDS IN HIV RISK BEHAVIORS OF HISPANIC MEN WHO HAVE SEX WITH MEN IN 19 US CITIES**
Lindsay Trujillo, Monica Adams, Amanda Smith, Cyprian Wejnert, for the NHBS Study Group
- 845 SUBSTANTIAL UNMET NEED FOR PrEP AMONG MSM IN HANOI**
Ramona Bhatia, Le Minh Giang, Ly T. An, Thai Thanh Truc, Hao Bui, Tran Khanh An, Lung Bich Ngoc, Diep T. Vu, Abu Abdul-Quader
- 846 RISK FACTORS FOR HIV INFECTION AMONG MSM IN THE ANRS IPERGAY PrEP TRIAL**
Marine Pilet, Eric Cua, Catherine Capitant, François Raffi, Christian Chidiac, Julie Chas, Cécile Tremblay, Armelle Pasquet, Brigitte Guillon, Bruno Spire, Constance Delaugerre, Laurence Meyer, Guillemette Antoni, Jean-Michel Molina, for the ANRS IPERGAY Study Group
- 847 IMPROVED DETECTION OF ACUTE HIV IN THE UNITED STATES, 2012-2017**
Laurie Linley, Richard M. Selik, Kevin P. Delaney, Alexandra M. Oster
- 848 DIAGNOSIS OF HIV INFECTION WITHIN 1 YEAR OF ACQUISITION, US, 2010-2016**
Alexandra Balaji, Azfar Siddiqi, Anna S. Johnson, Angela L. Hernandez, Baohua Wu, Riuguang Song

Poster P-R2 HIV AND SEXUALLY TRANSMITTED INFECTIONS

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- 849 INCIDENT STIs AMONG PLWH IN WASHINGTON, DC: MEASURING HIV TRANSMISSION RISK**
Hana Akselrod, Alessandra Secco, Jose Lucar, Matthew E. Levy, Morgan Byrne, Anne K. Monroe, Michael A. Horberg, Amanda D. Castel, Rupali K. Doshi, Heather Rivasplata, Leah Squires, David Parenti, Debra A. Benator, for the DC Cohort Executive Committee
- 850 INFLUENCE OF HIV AND PrEP USE ON HIGH STI PREVALENCES IN MSM IN GERMANY, 2018**
Klaus Jansen, Gyde Steffen, Ann-Kathrin Ziesenis, Viviane Bremer, Carsten Tiemann, for the MSM Screening Study research group
- 851 WHY STIs ARE INCREASING IN AT-RISK BOSTON MEN: MORE SCREENING PLUS**
Kenneth H. Mayer, Kevin Maloney, Kenneth Levine, Dana King, Chris Grasso, Douglas Krakower, Eli Rosenberg
- 852 THE BURDEN OF HIV AND OTHER STIs AMONG TRANSGENDER PERSONS IN NAIROBI, KENYA**
Adrian D. Smith, Rhoda Kabuti, Erastus Irungu, Chrispo Nyamweya, Elizabeth Fearon, Peter Weatherburn, Adam Bourne, Joshua Kimani
- 853 NEISSERIA GONORRHEA INCIDENCE AND TESTING IN THE HIV OUTPATIENT STUDY, 2007-2017**
Jun Li, Carl Armon, Frank J. Palella, Richard Novak, Douglas Ward, Stacey Purinton, Marcus Durham, Kate Buchacz

- 854 ANTIBIOTIC USE AND VAGINAL DISCHARGE SYNDROME BY HIV STATUS IN PREGNANCY: BOTSWANA**
Modiegi D. Diseko, Sonya Davey, Rebecca Zash, Judith Mabuta, Gloria K. Mayondi, Shahin Lockman, Rebecca Lockett, Chelsea Morroni, Mompoti O. Mmalane, Joseph Makhema, Goabaone Mogomotsi, Eldah N. Dintwa, Tumulano Sekoto, Ngozana Seonyatseng, Roger L. Shapiro
- 855 A CASE-CONTROL STUDY OF OCULAR SYPHILIS IN BRITISH COLUMBIA, CANADA, 2010-2018**
Hasan Hamze, Venessa Ryan, Emma Cumming, Christine Lukac, Jason Wong, Troy Grennan

Poster P-S1 HIV AND STI TESTING STRATEGIES

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- 922 HIV-1/2 DIFFERENTIATION IN THE US HIV TESTING ALGORITHM: HIGH BURDEN, LOW YIELD**
Anne H. Peruski, Laura Wesolowski, Kevin P. Delaney, Pollyanna R. Chavez, S. Michele Owen, Timothy Granade, Vickie Sullivan, William M. Switzer, John T. Brooks, M. Patricia Joyce
- 923 HIV SEROLOGICALLY INDETERMINATE INDIVIDUALS: FUTURE HIV STATUS AND RISK FACTORS**
George Mwinnyaa, Mary K. Grabowski, Ronald H. Gray, Maria Wawer, Larry W. Chang, Joseph Ssekasanvu, Joseph Kagaayi, Godfrey Kigozi, Sarah Kalibbala, Ronald M. Galiwango, Anthony Ndyababo, David Serwadda, Thomas C. Quinn, Steven J. Reynolds, Oliver Laeyendecker
- 924 ROUTINE TESTING OF NONPATIENTS INCREASES HIV DIAGNOSIS IN WESTERN KENYA**
Rachael Joseph, Paul K. Musingila, Fredrick Miruka, Stella Wanjohi, Caroline O. Dande, Polycarp Musee, Dickens Onyango, Gordon Okomo, Samuel Omondi, Emily C. Zielinski-Gutierrez, Lucy Ng'ang'a, Hellen Muttai, Kevin M. De Cock
- 925 A NEW PREDICTION MODEL FOR CHLAMYDIA AND GONORRHEA SCREENING IN WOMEN WITH HIV**
Jodie Dionne-Odom, Dustin M. Long, Andrew Westfall, Barbara Van Der Pol, Michael J. Mugavero, Sonia Napravnik, Heidi M. Crane, Mari Kitahata, Richard D. Moore, Benigno Rodriguez, Maile Y. Karris, Elvin Geng, Kenneth H. Mayer, Jeanne M. Marrazzo

Poster P-S2 STRATEGIES FOR HIV TESTING PARTNERS AND KEY POPULATIONS

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- 926 SELF-TESTS FOR AT-HOME PARTNER TESTING ARE ACCEPTABLE & UTILIZED AMONG PREGNANT WOMEN**
Jillian Pintye, John Kinuthia, Felix Abuna, Nancy M. Ngumbau, Salphine A. Wattoyi, Mary M. Marwa, Anjuli D. Wagner, Julia C. Dettinger, Laurén Gómez, Ben O. Odhiambo, Jared Baeten, Grace John-Stewart, for the PrEP Implementation for Mothers in Antenatal Care (PrIMA) Study
- 927 MALE PARTNER LINKAGE TO CLINIC STI-HIV SERVICES AFTER COUPLE EDUCATION & HIV TESTING**
Jennifer Mark, **Alison C. Roxby**, John Kinuthia, Alfred Osoti, Daisy Krakowiak, Monisha Sharma, Quy Ton, Barbra Richardson, Carey Farquhar
- 928 OUTCOME AND COST OF 3 METHODS FOR INCREASING MALE PARTNER TESTING IN SOUTH AFRICA**
Amy M. Medley, Arielle Lasry, Nompumelelo Khanyile, Tonicca Maphanga, Mothoemang Tlotleng, Carlos Toledo, Cila Kabongo, John Tumbo

- 929 INDEX CASE FINDING A STRATEGY FOR CLOSING THE GAP FOR HIV DIAGNOSIS IN TANZANIA**
Peris L. Urasa, Angela Ramhadani, Neema Makyao, Leonard Subi
- 930 HIGH ACCEPTABILITY AND HIV YIELD AMONG PARTNERS OF KEY POPULATIONS IN CENTRAL AMERICA**
Erickson Noj-Lara, Ricardo Mendizabal-Burastero, Nasim Farach, Carlos Vargas, Mayte Paredes, Rene Gutierrez, Renato Santa-Luce, Sanny Northbrook, for the Central America partner notification group
- 931 HIV SELF-TEST UPTAKE, YIELD, AND LINKAGE EXPERIENCES AMONG KEY POPULATIONS IN LESOTHO**
Betty B. Tukei, Kgotso Maile, Charles Chasela, Thapelo Maotoe, Ian Sanne, Sibongile Zungu, Thembisile Xulu, for the EQUIP Health
- 932 HIV TESTING RATES AMONG YOUTH AND ADOLESCENTS IN ZAMBIA: WILL HIV SELF-TESTING HELP?**
Zumbe Sibale, Roma Chilengi, Charles Chasela, Lawrence Mwananyanda, Alumwi Lungu, Shida Nyimbiri, Pedro Pisa, Precious Robinson, Crispin Moyo, Ntombi Sigwebela, Ian Sanne, Thembisile Xulu, for the EQUIP Health

Poster P-S3 HIV TESTING IN MSM

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- 933 SUSTAINED INCREASES IN HIV TESTING IN MSM WITH HIVST: A RANDOMISED CONTROLLED TRIAL**
Muhammad S. Jamil, Garrett Prestage, Kirsty Smith, Rebecca J. Guy, for the FORTH Investigator Group
- 934 EFFECTIVENESS OF DISTRIBUTING HIV SELF-TEST KITS THROUGH MSM PEER NETWORKS IN UGANDA**
Stephen Okoboi, Lazarus Oucul, Barbara Castelnuovo, Collins Agaba, Mastula Nanfuka, Andrew Kambu, Rachel King
- 935 PREFERENCES FOR HIV SELF-TESTING IN SUBPOPULATIONS OF AUSTRALIAN GAY AND BISEXUAL MEN**
 Jason Ong, Richard De Abreu Lorenzo, Deborah Street, Muhammad S. Jamil, Kirsty Smith, Fern Terris-Prestholt, **Rebecca J. Guy**, for the PUSH Study Group
- 936 WILLINGNESS TO USE HIV SELF-TESTING AMONG MSM FROM BRAZIL, MEXICO, AND PERU**
Thiago S. Torres, Kelika A. Konda, E. Hamid Vega-Ramirez, Oliver A. Elorreaga-Reyes, Dulce Diaz-Sosa, Cristina Pimenta, Brenda Hoagland, Hugo López-Gatell, Rebeca Robles-Garcia, Steven D. Diaz, Beatriz Grinsztejn, Carlos Carceres, Valdilea Veloso, for the ImPrEP Study Group
- 937 SEXUAL RISK AND HIV TESTING DISCONNECT IN MSM RECRUITED TO AN HIV SELF-TESTING TRIAL**
 Alison Rodger, **David Dunn**, Andrew N. Phillips, Leanne McCabe, Peter Weatherburn, Fiona Lampe, T Charles Witzel, Fiona Burns, Denise Ward, Roger Pebody, Roy Trevelion, Yolanda Collaco-Moraes, Sheena McCormack

Poster P-T1 OUTCOMES AMONG PrEP USERS

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- 944 INCIDENCE OF HIV IN A NATIONAL COHORT RECEIVING PREEXPOSURE PROPHYLAXIS**
Puja Van Epps, Brigid M. Wilson, Will Garner, Lauren Beste, Marissa M. Maier, Michael Ohl

945 HIV-1 INCIDENCE AND RISK FACTORS FOR ACQUISITION AMONG KENYAN MSM WITH ACCESS TO PrEP

Elizabeth Wahome, Susan M. Graham, Alexander N. Thiong'o, Khamisi Mohamed, Tony H. Oduor, Evans Gichuru, John Mwambi, Eduard Sanders

946 DOSE-DEPENDENT DECLINE IN BONE MINERAL DENSITY BY LONG-TERM TFV EXPOSURE IN IPREX-OLE

Matthew A. Spinelli, David Glidden, Peter L. Anderson, Valdilea Veloso, Vanessa McMahan, Susan P. Buchbinder, Robert M. Grant, Monica Gandhi, for the iPrEx OLE Study Team

947 LOW URINE TFV BY A NOVEL IMMUNOASSAY IS ASSOCIATED WITH HIV SEROCONVERSION ON PrEP

Matthew A. Spinelli, David Glidden, Warren Rodrigues, Guohong Wang, Michael Vincent, Catherine A. Koss, Hideaki Okochi, Karen Kuncze, Megha Mehrotra, Patricia Defechereux, Susan P. Buchbinder, Robert M. Grant, Monica Gandhi, for the iPrEx OLE Study Team

Poster P-T2 RISK COMPENSATION, PrEP, AND NON-PrEP PREVENTION
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948 NO EVIDENCE OF SEXUAL RISK COMPENSATION AMONG HIV SERODISCORDANT COUPLES ON PrEP

Katrina F. Ortblad, Randy Stalter, Elizabeth A. Bukusi, Kenneth Ngunjiri, Andrew Mujugira, Connie L. Celum, Jared Baeten, Renee Heffron

949 Y-CHROMOSOME DETECTION & CONDOMLESS SEX IN SEX WORKERS IN THE SENEGAL PrEP PROJECT

Geoffrey S. Gottlieb, Stephen E. Hawes, Mame D. Bousso Bao, Anna J. Ndiaye, Daouda Gueye, Dana Raugi, Moustapha Mane, Aminata Mboup, Ousmane Diouf, Carlos Suarez, Fatima Jones, Josie Presley, Coumba Toure Kane, Moussa Sarr, Souleymane Mboup

950 RISK COMPENSATION FOLLOWING PrEP DISCONTINUATION AMONG HIV-SERODISCORDANT COUPLES

Randy Stalter, Kenneth K. Mugwanya, Jared Baeten, Katherine Thomas, Lara Kidoguchi, Connie L. Celum, Andrew Mujugira, Kenneth Ngunjiri, Elizabeth A. Bukusi, Renee Heffron, for the Partners Demonstration Project Team

951 VOLUNTARY MEDICAL MALE CIRCUMCISION IN SWAZILAND: ACHIEVEMENTS AND GAPS

Zandile Mnisi, Chiara Draghi, Chunhui Wang, Trong T. Ao, Suzue Saito, Neena M. Philip, Choice Ginindza, Sabelo Dlamini, Kristin Brown, Fortune T. Mhlanga, Caroline Ryan, Jessica E. Justman, Harriet Nuwagaba-Biribonwoha

952 SHIKAMANA INTERVENTION SIGNIFICANTLY REDUCES HIV INCIDENCE AMONG FSW IN TANZANIA

Deanna Kerrigan, Jessie Mbwambo, Samuel Likindikoki, Wendy Davis, S.W. Beckham, Andrea Mantsios, Anna M. Leddy, Noya Galai

953 INTERDISCIPLINARY INTERVENTION FOR HOSPITALIZED PWID MAY INCREASE MAT USE

Ellen F. Eaton, Andrew Westfall, Eddie A. Mathews, Cayce Paddock, Peter Lane, Michael Saag, Michael J. Mugavero, Karen Cropsey, Rachael A. Lee

Poster P-U1 HIV AND VAGINAL MICROBIOME**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 998 IMPACT OF A CONTRACEPTIVE RING ON VAGINAL BACTERIA ASSOCIATED WITH HIV ACQUISITION**
Jeanne M. Marrazzo, Sujatha Srinivasan, Elizabeth M. Irungu, Katherine Thomas, Nelly R. Mugo, Peterson Mwaniki, Catherine Kiptinness, Kenneth Ngure, Kate Heller, Meighan Krows, Kristina Garcia, Steven Gakuo, Tina L. Fiedler, David N. Fredricks
- 999 DOES BV MODIFY THE EFFECT OF HORMONAL CONTRACEPTION ON HIV ACQUISITION?**
Michelle C. Sabo, Barbra A. Richardson, Walter Jaoko, Kishorchandra Mandaliya, Jared Baeten, Ludo Lavreys, Hal Martin, Julie M. Overbaugh, R. Scott McClelland
- 1000 CHANGES IN VAGINAL MICROBIOTA AMONG HIV-INFECTED AFRICAN WOMEN INITIATING DMPA**
Bridget M. Whitney, Ken Tapia, Sujatha Srinivasan, Eric M. Muriuki, Bhavna Chohan, Jacqueline Wallis, Congzhou Liu, R. Scott McClelland, Noah G. Hoffman, David N. Fredricks, Alison C. Roxby
- 1001 MENOPAUSE IMPACTS THE VAGINAL MICROBIOME AND IMMUNE MEDIATORS IN WOMEN WITH HIV**
Kerry Murphy, Marla J. Keller, Kathryn Anastos, Shada Sinclair, J. C. Devlin, Qiuhi Shi, Donald R. Hoover, Brian Starkman, Jaime McGillick, Caroline Mullis, Howard Minkoff, Maria Gloria Dominguez-Bello, Betsy Herold

Poster P-U2 FOREVER YOUNG: STI AND HIV COINFECTION**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 1002 PREVALENCE OF CHLAMYDIA AND GONORRHEA IN HIV-POSITIVE ADOLESCENTS IN ESWATINI**
Caitlyn L. Jasumback, Sarah Perry, Martha Matsenjwa, Zandile T. Masangane, Mpumelelo Mavimbela, Anna Mandalakas, Alexander Kay
- 1003 PREVALENCE AND DETERMINANTS OF STI IN HIV+ AND HIV-PREGNANT SOUTH AFRICAN WOMEN**
Dvora Joseph Davey, Dorothy Nyemba, David DiTullio, Yolanda Gomba, Jeffrey D. Klausner, Landon Myer
- 1004 INCIDENCE OF HSV-2 AND HIV IN A COHORT OF KENYAN ADOLESCENT GIRLS**
Alison C. Roxby, Amalia Magaret, Stacy Selke, Murugi Micheni, Lynda M. Oluoch, Tiffany Yuh, Bhavna Chohan, Catherine Kiptinness, Kenneth Ngure, Nelly R. Mugo, Anna Wald
- 1005 PARTNER NOTIFICATION: INCREASING EFFECTIVENESS WITH MODERN COMMUNICATION TECHNOLOGY**
 Amelia S. Oliveira, **Julia Bilinska**, Hamish Mohammed, Jay Jarman, John Were, Anatole Menon-Johansson, Lisa Hamzah

Poster P-U3 SOMETHING'S MISSING; CONTRACEPTION AND HIV**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 1006 INCIDENCE AND CORRELATES OF UNINTENDED PREGNANCY IN HIV-POSITIVE KENYAN SEX WORKERS**
Erica Lokken, Barbra A. Richardson, George Wanje, Katherine Wilson, Walter Jaoko, John Kinuthia, R. Scott McClelland

1007 DRIVERS OF UNPLANNED PREGNANCY AND UNMET NEED FOR CONTRACEPTION IN SOUTH AFRICA

Witness Chirinda, Debra Jackson, Vundli Ramokolo, Yages Singh, Trisha Ramraj, Duduzile Nsibande, Kondwani Ng'oma, Sanjana Bhardwaj, Mireille Cheyip, Mary Mogashoa, Carl Lombard, Ameena Goga

1008 UPTAKE OF POSTPARTUM CONTRACEPTION IN BOTSWANA, A HIGH BURDEN HIV SETTING

Kathleen M. Powis, Shan Sun, Keolebogile N. Mmasa, Gosego Masasa, Samuel W. Kgole, Justine Legbedze, Joseph Makhema, Lesego Mokganya, Elaine J. Abrams, Lynn M. Yee, Lisa B. Haddad, Rebecca Lockett, Jennifer Jao

1009 IMPACT OF INTEGRATION OF FAMILY PLANNING INTO HIV TREATMENT PROGRAMS IN CAMEROON

Andrew Abutu, Tih M. Pius, Evelyn Kim, Jessica L. Stephens, Lily Foglabenchi, Holl Jennifer, Abigail R. Greenleaf, Eveline M. Khan, Thomas Welty, Edith Welty, Florence Tumasang, Jembia Mosoko, Omotayo Bolu

1010 PHARMACOKINETIC AND PHARMACOGENETIC ASSESSMENT OF ART AND CONTRACEPTIVE IMPLANTS

Randy Stalter, Jared Baeten, Kimberly K. Scarsi, Bani Tamraz, Katherine Thomas, David Erikson, Jairam Lingappa, Kavita Nanda, Athena Kourtis, Rena Patel, for the Partners PrEP Study Team

Poster P-V2 ENGAGEMENT IN CARE**Poster Hall - 4EF****2:30 PM - 4:00 PM****1026 ACCESS TO HIV CARE CORRELATES WITH DEPRESSION SEVERITY AND RATES OF VIRAL SUPPRESSION**

Ann K. Avery, Mallika Lavakumar, Allison R. Webel, James Alsop, Doug Gunlzer, Diana Gurley, Steven Lewis

1027 FACILITATED LINKAGE TO CARE FOLLOWING HOME-BASED HIV TESTING IN RURAL SOUTH AFRICA

Kathy Baisley, Janet Seeley, Mark J. Siedner, Olivier Koole, Philippa Matthews, Till Bärnighausen, Theresa Smit, Dickman Gareta, Sphephelo Dlamini, Kobus Herbst, H. Manisha N. Yapa, Collins C. Iwuji, Hae-Young Kim, Deenan Pillay, Maryam Shahmanesh

1028 PROJECT CORECT: PRELIMINARY RESULTS OF DATA TO CARE WITH CT DPH AND HIV CLINICS

Merceditas Villanueva, Janet Miceli, Constance Carroll, Suzanne Speers, Lisa Nichols, Frederick Altice, Heidi Jenkins

1029 DEVELOPMENT OF AN EMR-BASED ALGORITHM TO IDENTIFY PATIENTS LOST TO HIV CARE

Jason Zucker, Jacek Slowikowski, Kenneth Ruperto, Peter Gordon

1030 ARE THEY REALLY LOST? MULTI-CENTER TRACING STUDY IN ART PROGRAMS IN SOUTHERN AFRICA

Benedikt Christ, Kathrin Zürcher, Frédérique Chammartin, Josephine Muhairwe, Laura Jefferys, Janneke van Dijk, Kombatende Sikombe, Monique van Lettow, Cleophas Chimbete, Sam J. Phiri, Matthias Egger, Marie Ballif

1031 HEALTH DEPARTMENT RANDOMIZED TRIAL TO RE-ENGAGE OUT-OF-CARE HIV INFECTED PERSONS

Robyn N. Fanfair, George Khalil, Nasima Camp, Kathleen Brady, Alfred DeMaria, Merceditas Villanueva, Liisa Randall, Heidi Jenkins, Crystal Lucas, Frederick Altice, Anthony Gerard, Nina Kishore, Tiffany Williams, Taraz Samandari, Paul J. Weidle

- 1032 PATTERNS AND PREDICTORS OF RETURN TO CARE AMONG DISENGAGED HIV PATIENTS IN ZAMBIA**
Laura K. Beres, Ingrid Eshun-Wilson, Sandra Simbeza, Sheree Schwartz, Aaloke Mody, Kombatende Sikombe, Jake Pry, Paul Somwe, Carolyn Bolton Moore, Njekwa Mukamba, Steph Topp, Nancy Padian, Izukanji Sikazwe, Charles B. Holmes, Elvin Geng
- 1033 LONG-TERM OUTCOME IN HIV-1 INFECTED ADULTS WITH ADVANCED IMMUNODEFICIENCY**
Guoqing Zhang, Kouakou Adade Aka Digbo Micheline, Peter A. Minchella, Kouadio Leonard Ya, Andre Tehe, Mireille Kalou, Karidia Diallo, Judith Hedje, Heather Alexander, Clement Zeh, G. Laissa Ouedraogo, Christiane Adje-Toure

Poster P-V5 COMORBID CONDITIONS

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 1062 COMORBID CONDITIONS, VIRAL TRAJECTORIES, AND COORDINATED CARE IN LOS ANGELES COUNTY**
Michael J. Li, Erica Su, Wendy H. Garland, Sona Oksuzyan, Robert E. Weiss, Uyen Kao, Sung-Jae Lee, Raphael J. Landovitz, Steven Shoptaw
- 1063 HIGH NCDs INCIDENCE AMONG PLHIV IN KENYA: LONGITUDINAL ANALYSIS OF TREATMENT OUTCOMES**
Dunstan Achwoka, **Anthony Waruru**, Tai Ho Chen, Kenneth Masamaro, Evelyne Ngugi, Irene Mukui, Abraham Katana, Thomas Achia, Lucy Ng'ang'a, Kevin M. De Cock
- 1064 NONCOMMUNICABLE DISEASES AS REASONS FOR ADMISSION AMONG HIV-INFECTED ADULTS IN ZAMBIA**
Belinda V. Chihota, Michael J. Vinikoor, Nyakulira Kandiwo, Lottie Hachaambwa, Elvin Geng, Charles B. Holmes, Edford Sinkala, Monika Roy
- 1065 PROJECTED GROWTH AND NEEDS OF AGING PLWH IN HRSA'S RYAN WHITE HIV/AIDS PROGRAM**
Stacy Cohen, Pamela W. Klein, Marlene M. Matosky, Robert Mills, R. Chris Redwood, Laura W. Cheever
- 1066 CASCADES TO EVALUATE THE CERVICAL CANCER SCREENING PROGRAM IN A ZIMBABWEAN ART CLINIC**
Katayoun Taghavi, Ardelle Mandiriri, Eliane Rohner, Tinei Shamu, Cleophas Chimbetete, Tsitsi M. Magure, **Serra Asangbeh**, Matthias Egger, Margaret Pascoe, Julia Bohlius
- 1067 EARLIER AGE OF ONSET AND HIGHER PREVALENCE OF COMORBIDITIES IN PEOPLE LIVING WITH HIV**
Ni Gusti Ayu Nanditha, Martin St-Jean, Hiwot M. Tafessu, Michelle Lu, Kate Salters, Julio S. Montaner, Silvia Guillemi, Robert S. Hogg, Viviane D. Lima
- 1068 POOR DIABETES CONTROL IN HIV+ AND HIV- WOMEN: OPPORTUNITIES FOR INTERVENTION**
Karla I. Galaviz, Jonathan Colasanti, Cyra Christina Mehta, Phyllis Tien, Adaora Adimora, Maria L. Alcaide, Mardge H. Cohen, Deborah Gustafson, Roksana Karim, Deborah Konkle-Parker, Daniel Merenstein, Anjali Sharma, Michael F. Schneider, Gina Wingood, Igbo Ofotokun
- 1069 TOTAL AND CENTRAL OBESITY PREDICT COGNITIVE DECLINE: MULTICENTER AIDS COHORT STUDY**
Leah H. Rubin, **Deborah Gustafson**, Kellie L. Hawkins, Long Zhang, Lisa Jacobson, James T. Becker, Cynthia Munro, Jordan E. Lake, Eileen Martin, Andrew Levine, Todd T. Brown, Ned W. Sacktor, Kristine M. Erlandson

1070 EFFECT OF OBSTRUCTIVE LUNG DISEASE ON MORTALITY AMONG HIV+ PERSONS WHO INJECT DRUGS

Mariah M. Kalmin, M. Brad Drummond, Gregory D. Kirk, Shruti H. Mehta, Daniel Westreich

1071 SYNDEMICS AND RETENTION IN CARE AMONG WOMEN LIVING WITH HIV IN RIO DE JANEIRO, BRAZIL

Christine M. Zachek, Lara Coelho, Raquel B. De Boni, Jesse L. Clark, Rosa M. Domingues, Paula M. Luz, Ruth K. Friedman, Angela C. Vasconcelos de Andrade, Valdilea Veloso, Jordan E. Lake, Beatriz Grinsztejn

1072 PROSTATE CANCER SCREENING AND INCIDENCE IN AGING VETERANS INFECTED WITH HIV

Michael S. Leapman, Lesley S. Park, Kimberly Stone, Cynthia L. Gibert, Matthew B. Goetz, Roger Bedimo, Roxanne Wadia, Maria Rodriguez-Barradas, Fatma Shebl, Amy C. Justice, Sheldon T. Brown, Kristina Crothers, **Keith M. Sigel**

WEDNESDAY MARCH 6, 2019

Poster P-A3 MECHANISTIC VIROLOGY**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 176 FLOW VIROMETRY REVEALS PATIENT VARIATIONS IN HIV PROTEASE THAT CORRELATE WITH FITNESS**
Michał Bonar, Caroline Tabler, **John Tilton**
- 177 THE HIV-1 ANTISENSE PROTEIN ASP IS A NOVEL STRUCTURAL PROTEIN OF THE VIRAL ENVELOPE**
Yvonne Affram, Juan C. Zapata, Marzena Pazgier, Maria Iglesias-Ussel, Krishanu Ray, Olga Latinovic, **Fabio Romerio**
- 178 UNPAIRED GUANOSINES IN THE HIV LEADER RNA DIRECT HIV GENOMIC RNA PACKAGING**
Chijioko Ummunnakwe, Sheikh A. Rahman, Alice Duchon, Yang Liu, Olga A. Nikolaitchik, Jianbo Chen, Wei-Shau Hu, Vinay K. Pathak
- 179 DETECTION AND SEQUENCING OF ASP TRANSCRIPTS DURING EARLY HIV-1 INFECTION**
Antonio Mancarella, Brian T. Foley, Giampietro Corradin, Giuseppe Pantaleo, Cecilia Graziosi
- 180 IDENTIFICATION OF HIV-1 ENV MUTATIONS THAT ENHANCE ENTRY INTO MACAQUE CELLS**
Jeremy I. Roop, **Noah R. Cassidy**, Jesse Bloom, Julie M. Overbaugh
- 181 STRUCTURAL AND DYNAMIC CHARACTERIZATION OF MCD4-BINDING HIV-1 ENVELOPE GLYCOPROTEINS**
Rachel Kinzelman, Julie M. Overbaugh, Kelly K. Lee, Thaddeus Davenport
- 182 MUTATIONS IN THE GP41 ECTODOMAIN CAN CONTRIBUTE TO HIV-1 RESISTANCE TO smFIs**
Shigeyoshi Harada, Yuta Hikichi, Tetsuo Narumi, Kazuhisa Yoshimura

Poster P-A4 HOST-VIRUS INTERACTIONS**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 183 HIV PROVIRAL TRANSCRIPTION RAPIDLY UPREGULATES BCL3, BIRC2, AND BIRC3 TRANSCRIPTION**
Joseph P. Casazza, Quang N. Nguyen, David R. Ambrozak, Christine Grech, Jianfei Hu, Sam Darko, Amy Ransier, Farida Laboune, Daniel Douek, Richard A. Koup
- 184 CHARACTERIZATION OF THE EPITRANSCRIPTOMIC LANDSCAPE OF HIV-INFECTED CELLS**
Sara Cristinelli, Angela Ciuffi
- 185 LB AN HIV E-MAP REVEALS GENETIC INTERACTIONS MEDIATING HIV INFECTION**
David E. Gordon, Ariane Watson, Assen Roguev, Nevan J. Krogan
- 186 ELUCIDATING THE ROLE OF THE PPIP MOTIF IN HIV-1 CAPSID IN POSTENTRY EVENTS**
Mariia Novikova, Anna T. Gres, Ryan C. Burdick, Mohamed Husen M. Munshi, KyeongEun Lee, Vineet KewalRamani, Vinay K. Pathak, Stefan Sarafianos, Eric O. Freed
- 187 SINGLE-CELL ANALYSIS REVEALS P2X-DEPENDENT HIV-STIMULATED CALCIUM SIGNALING**
Tracey L. Freeman, Arpit Dave, Alexandra Soare, Hagerah Malik, Kristin Beaumont, Benjamin K. Chen, Talia Swartz

Poster P-B4 HIV TRANSMISSION AND DISSEMINATION**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 221 HIV INFECTION ALTERS DYNAMIC MACROPHAGE: T-CELL INTERACTIONS TO PROMOTE VIRAL SPREAD**
Paul Gabriel C. Lopez, Wan Koh, Ryan Hnatiuk, Thomas Murooka
- 222 THE ROLE OF MIGRATORY DENDRITIC CELLS IN ESTABLISHING HIV DISSEMINATION**
Wan Koh, Paul Gabriel C. Lopez, Ryan Hnatiuk, Umar P. Mohammed, Ajibola Oluwaseun, Thomas Murooka
- 223 CHARACTERIZATION OF SHIV IMMUNOPATHOGENESIS IN RHESUS MACAQUES**
Jennifer A. Manuzak, Ernesto Coronado, Tiffany Hensley-McBain, Charlene Miller, Courtney Broedlow, George Shaw, Katharine J. Bar, Nichole Klatt
- 224 PLASMA CXCL13 AS A MARKER OF HIV DISEASE PROGRESSION AND SYSTEMIC IMMUNE ACTIVATION**
Rayoun Ramendra, Vikram Mehraj, Stéphane Isnard, Bertrand Lebouché, Cecilia Costiniuk, Réjean Thomas, Jason Szabo, Jean-Guy Baril, Benoit Trottier, Pierre Coté, Roger LeBlanc, Cécile Tremblay, Jean-Pierre Routy, for the Montreal Primary HIV-infection Study Group and Canadian HIV and aging cohort
- 225 MODULATION AND PATHOGENESIS OF HIV-1 X4 EVOLUTION IN DISEASE PROGRESSION**
Li Yin, Wilton B. Williams, Amanda C. Lowe, Kai-Fen Chang, John W. Sleasman, Maureen Goodenow
- 226 HIV+ TO HIV+ KIDNEY TRANSPLANT: TRACKING DONOR VIRUS IN RECIPIENT URINE AND BLOOD**
Maria Blasi, Hannah Stadtler, Jerry Chang, Marion Hemmersbach Miller, Feng Gao, Cameron R. Wolfe, Mary Klotman

Poster P-B5 HIV AND THE GUT MICROBIOME**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 227 GUT MICROBES DRIVE EXPANSION AND PREFERENTIAL HIV INFECTION OF GUT CD4 CTL EX VIVO**
Stephanie Dillon, Sabrina Nesladek, Allison J. Christians, Christine Purba, Kejun Guo, Martin McCarter, Mario Santiago, Cara Wilson
- 228 MODULATION OF GUT MICROBIOTA IMPROVES MUCOSAL PERMEABILITY IN HIV+ PATIENTS**
Claudia Pinacchio, Luca Laghi, Giacomo Rossi, Eugenio Nelson Cavallari, Letizia Santinelli, Giuseppe P. Innocenti, Paolo Vassalini, Giancarlo Ceccarelli, Carolina Scagnolari, Gabriella d'Ettorre, Vincenzo Vullo
- 229 RECTAL MICROBIOME ALTERATIONS ASSOCIATED WITH TDF/FTC FOR PREEXPOSURE PROPHYLAXIS**
Jennifer A. Fulcher, Fan Li, Ryan Cook, Sarah Zabih, Cora Woodward, Alexander Louie, Hideaki Okochi, Nicole Tobin, Monica Gandhi, Steven Shoptaw, Pamina Gorbach, Grace M. Aldrovandi
- 230 JOINT EFFECTS OF HIV AND OBESITY ON THE MICROBIOME OF YOUNG MEN WHO HAVE SEX WITH MEN**
Ryan Cook, Jennifer A. Fulcher, Nicole Tobin, Fan Li, David Lee, Marjan Javanbakht, Ron Brookmeyer, Steven Shoptaw, Robert Bolan, Cora Woodward, Sarah Zabih, Grace M. Aldrovandi, Pamina Gorbach

- 231 EFFECTS OF LACTOFERRIN ON IMMUNE ACTIVATION AND MICROBIOME AMONG HIV+ INDIVIDUALS**
Ornella Sortino, Katherine Huppler Hullsiek, Elizabeth Richards, Adam Rupert, Andrea Schminke, Namo Tetekpor, Mariam Quinones, Rachel Prosser, Timothy Schacker, Irini Sereti, Jason V. Baker
- 232 COTRIMOXAZOLE MODULATES IMMUNE CELL ACTIVATION & THE GUT MICROBIOTA IN HIV INFECTION**
Claire D. Bourke, Ethan K. Gough, Chipo Berejena, Mutsa Bwakura-Dangarembizi, Joseph Lutaakome, Adeodata Kekitiinwa, Victor Musiime, Jane Deayton, Moira J. Spyer, Nigel Klein, Sarah Walker, Diana Gibb, Ameer R. Manges, Andrew Prendergast
- 233 DARUNAVIR/RITONAVIR THERAPY CONTRIBUTES TO INTESTINAL DYSFUNCTION IN HEALTHY MACAQUES**
Alexandra Ortiz, Jacob Flynn, Sarah DiNapoli, Jason Brenchley

Poster P-B6 HIV AND THE REPRODUCTIVE TRACT

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 234 THE MICROBIOME MAY MODIFY HIV INFECTION RISK ASSOCIATED WITH HORMONAL CONTRACEPTIVES**
 Laura Noël-Romas, Michelle Perner, Rafilwe Molatlhegi, Sarah Mutch, Kenzie Birse, Renee Heffron, Lyle McKinnon, **Adam Burgener**
- 235 ROLE OF FREM1 IN PRO-INFLAMMATORY RESPONSES DURING VAGINAL HIV/SIV INFECTION**
Robert W. Omenge, Annelie Tjernlund, Ma Luo, Joshua Kimani, Makobu Kimani, Kristina Broliden, Qingsheng Li, Francis Plummer, Zhe Yuan, Xin Y. Yuan, Mohammad Kashem, Hongzhao Li, Guobin Kang, Lewis R. Liu, Ben Liang
- 236 CERVICOVAGINAL MICROBIAL STRAINS ARE ASSOCIATED WITH DISTINCT IMMUNOPHENOTYPES**
Matthew R. Hayward, Seth M. Bloom, Nomfuneko A. Mafunda, Jiawu Xu, Brittany A. Bowman, Christina Gosmann, Bjorn Corleis, Mara Farcasanu, Justin K. Rice, Curtis Huttenhower, Caroline Mitchell, Douglas Kwon
- 237 GENITAL AND SYSTEMIC INFLAMMATION ASSOCIATED WITH FACTORS THAT MAY ALTER HIV RISK**
Randy Stalter, Margot Plews, Romel Mackelprang, Adam Burgener, Rena Patel, Renee Heffron, Kavita Nanda, Florian Hladik, Sean Hughes, Jared Baeten, Nelly R. Mugo, Athena Kourtis, Adrienne Meyers, Jairam Lingappa, for the Partners PrEP Study Team
- 238 CHLAMYDIA AND CERVICOVAGINAL MICROBIOTA MODULATE GENITAL-TRACT CD4+ T-CELL SUBSETS**
Seth M. Bloom, Nondumiso N. Xulu, Nomfuneko A. Mafunda, Mara Farcasanu, Matthew R. Hayward, Kendall R. Jackson, Douglas Kwon
- 239 PENILE BACTERIAL SPECIES ASSOCIATED WITH INCREASED HIV RISK IN HETEROSEXUAL MEN**
Maliha Aziz, Zoe Packman, Jessica Prodger, Ronald M. Galiwango, Alison Abraham, Fred Nalugoda, Sanjeev Sariya, Lance Price, Godfrey Kigozi, Aaron Tobian, Rupert Kaul, Ronald H. Gray, Cindy M. Liu
- 240 FORESKIN HIV TARGET CELLS AND PENILE ANAEROBES ASSOCIATED WITH HIV SEROCONVERSION**
Jessica Prodger, Zoe Packman, Ronald M. Galiwango, Alison Abraham, Fred Nalugoda, Maliha Aziz, Sanjeev Sariya, Kelsey Roach, Lance Price, Godfrey Kigozi, Ronald H. Gray, Aaron Tobian, Rupert Kaul, Cindy M. Liu

241 HIV-SUPPRESSED PATIENTS' PLASMA AND SEMEN EXOSOMES CONTAIN PROTECTIVE LEVELS OF ART

Jennifer L. Welch, Jack T. Stapleton, Hussein Kaddour, Lee Winchester, Courtney V. Fletcher, Chioma M. Okeoma

242 BLOOD MICROBIOTA CORRELATES WITH INFLAMMATION AND ART-MEDIATED IMMUNE RESTORATION

Sergio Serrano-Villar, Mariano Matarranz, Jose I. Bernardino, Alejandro Vallejo, Carolina Gutiérrez, Otilia Bisbal, Maria Lagarde, Nadia Madrid, Rafael Rubio, Cristina Gomez-Ayerbe, María J. Vivancos-Gallego, Alfonso Cabello, Matilde Sanchez-Conde, Vicente Estrada, Santiago Moreno

Poster P-C2 AIDS MALIGNANCIES: CERVICAL AND ANAL CANCER**Poster Hall - 4EF****2:30 PM - 4:00 PM****276 EXPLORING THE MICROBIOTA FOR THE DIAGNOSIS OF ANAL PRECANCEROUS LESIONS IN MSM**

Sergio Serrano-Villar, Alfonso Cabello, María José Gosalbes, Matilde Sanchez-Conde, Begoña Monge, Jorge Diaz, Talía Sainz, Patricia Roiz, María J. Vivancos-Gallego, Maria Jesus P. Elias, Jose L. Casado, Ana Moreno, Santiago Moreno, José A. Pérez-Molina

277 TRANSCRIPTOME ANALYSIS IN HPV+/HIV+ TISSUE REVEALS MARKERS OF HPV-DEPENDENT DYSPLASIA

Eva Riveira-Muñoz, Ivan Galvan-Fermenia, Rafael de Cid, Antoni Tarrats, Marta Piñol, Francesc García-Cuyás, Jose A. Este, Roger Badia, Guillem Sirera, Ester Ballana

278 HPV CLEARANCE AND REINFECTION IN 2 YEARS AFTER RANDOMIZATION TO CRYOTHERAPY OR LEEP

Christine J. McGrath, Anthony Cagle, Hugo De Vuyst, Troy Querec, Elizabeth Unger, Sharon A. Greene, Sameh Sakr, Marleen Temmerman, Nelly R. Mugo, Michael H. Chung

279 HPV DNA TESTS FOR CERVICAL CANCER SCREENING OF HIV-INFECTED WOMEN

Louise Kuhn, Rakiya Saidu, Ana I. Tergas, Rosalind Boa, Jennifer Moodley, Cecilia Svanholm-Barrie, David Persing, Scott Campbell, Thomas C. Wright, Lynette Denny

280 RELATION OF CIN2 PROGRESSION WITH SERIAL CERVICOVAGINAL CYTOKINE/CHEMOKINE LEVELS

Kate G. Michel, Christine Colie, L. Stewart Massad, Cuiwei Wang, Allison G. Doyle, Gypsyamber D'Souza, Lisa Rahangdale, Lisa Flowers, Joel Milam, Joel Palefsky, Howard Minkoff, Howard D. Strickler, Seble Kassaye

281 IMMUNE GENE EXPRESSION IN ANAL DYSPLASTIC LESIONS BY HIV STATUS AND ABLATION OUTCOMES

Nikhil Shamapant, Yuxin Liu, Michael Gaisa, Russell McBride, Keith M. Sigel

282 HPV GENOTYPING IN 1,088 ANAL HSIL CASES: EXPECTED AND UNEXPECTED RESULTS

Michael Gaisa, Keith M. Sigel, Yuxin Liu

283 PRIMARY HPV SCREENING IN WOMEN LIVING WITH HIV

Howard D. Strickler, Nancy A. Hessel, Isam-Eldin Eltoug, Mark Einstein, Philip E. Castle, L. Stewart Massad, Lisa Flowers, Lisa Rahangdale, Adora Adimora, Igho Ofotokun, Meghan Huchko, Gypsyamber D'Souza, Joel Palefsky, Robert Burk, for the WIHS HPV Screening Study

284 LB REDUCED COVERAGE OF HPV VACCINE TYPES IN CERVICAL PRECANCER IN HIV INFECTION

Christina Carlander, Camilla Lagheden, Carina Eklund, Sara Nordqvist Kleppe, Philippe Wagner, Aylin Yilmaz, Kristina Elfgrén, Anders Sönnnerborg, Pär Sparén, Joakim Dillner

Poster P-D3 STUDIES OF ANTIBODIES AND B CELLS

Poster Hall - 4EF

2:30 PM - 4:00 PM

305 SUSCEPTIBILITY TO bNABs IS CONCORDANT IN PRE-ART PLASMA AND ON-ART PBMCs: ACTG NWC413

Jacqueline Reeves, Yu Zheng, Maxine Olefsky, Yolanda Lie, Leah Burke, Babafemi Taiwo, Christos Petropoulos, Pablo Tebas, Marina Caskey, **Katharine J. Bar**

306 HIGH-THROUGHPUT ASSAY TO ASSESS ADCC ACTIVITY AGAINST CLINICAL ISOLATES OF HIV-1

Allison S. Thomas, Melissa Ghulam-Smith, Manish Sagar

307 IMPACT OF ATI ON B-CELL REGULATION BY IGG3 IN CHRONICALLY HIV-INFECTED INDIVIDUALS

Valerie Melson, Lela Kardava, Christine Youn, Jesse Justement, Victoria Shi, Catherine Seamon, Michael Sneller, Tae-Wook Chun, Susan Moir

308 PTEN OVEREXPRESSION IN ANTIGEN-SPECIFIC B CELLS FROM HIV-INFECTED INDIVIDUALS ON ART

Lesley R. de Armas, Suresh Pallikkuth, Li Pan, Stefano Rinaldi, Nicola Cotugno, Sarah F. Andrews, Rajendra Pahwa, Adrian B. McDermott, Paolo Palma, Savita Pahwa

309 AUTOLOGOUS NEUTRALIZING ANTIBODIES DRIVE VIRUS EVOLUTION DURING REBOUND AFTER ATI

D. B. Salantes, Felicity Mampe, Anya Bauer, Emily Lindemuth, Emmanouil Papasavvas, Luis Montaner, Katharine J. Bar

310 A NOVEL PHAGE-DISPLAY APPROACH MAPS LINEAR EPITOPES OF GP41-SPECIFIC MABs

Meghan E. Garrett, Katherine L. Williams, Theodore Gobillot, Ryan Basom, Megan M. Stumpf, Katharine Dusenbury, Julie M. Overbaugh

311 RAPID DEVELOPMENT OF AN INFANT-DERIVED HIV-1 BROADLY NEUTRALIZING ANTIBODY

Laura Doepker, Cassandra Simonich, Duncan Ralph, James A. Williams, Amrit Dhar, Christopher T. Small, Brian Oliver, Vladimir Vigdorovich, Vidya Mangala Prasad, Ruth Nduati, D. N. Sather, Kelly K. Lee, Frederick Matsen, Julie M. Overbaugh

312 PROFILING ANTIBODY CROSS-REACTIVITY AMONG SIV ISOLATES USING A PEPTIDE MICROARRAY

Anna S. Heffron, David Baker, Adam Bailey, Eric Peterson, Amelia K. Haj, Mariel S. Mohns, Connor Buechler, Adam Ericson, Dawn M. Dudley, John C. Tan, David H. O'Connor

Poster P-E06 HIV CURATIVE APPROACHES: IN VITRO

Poster Hall - 4EF

2:30 PM - 4:00 PM

361 BCL-2 INHIBITOR ABT-199 REDUCES RESISTANCE OF HIV RESERVOIRS TO CD8+ T-CELL KILLING

Szuhan Huang, Shabnum Patel, Yanqin Ren, Ronald Truong, Dean Magat, Chase McCann, Shuntai Zhou, Sabrina Clark, Elizabeth A. Zale, Amanda Macedo, Talia Mota, Ronald Swanstrom, Alberto Bosque, Catherine M. Bollard, R. Brad Jones

- 362 BCL-2/XL ANTAGONISTS REDUCE HIV RESERVOIRS FROM IN VITRO MODELS NOT EX VIVO CD4 CELLS**
Yanqin Ren, Amanda Macedo, Suzhan Huang, Dora Chan, Ronald Truong, Thomas Rohwetter, Talia Mota, Colin Kovacs, Erika Benko, Alberto Bosque, R. Brad Jones
- 363 IN VIVO ANTIVIRAL EFFECT OF DASATINIB IN HUMANIZED MICE INFECTED WITH HIV-1**
 Maria Salgado, Javier Martinez-Picado, Cristina Gálvez, Sara Rodriguez-Mora, Victor Urrea, Elena Mateos, José Alcamí Pertejo, **Mayte Coiras**
- 364 A BACTERIOPHAGE T4 NANOPARTICLE PLATFORM FOR TARGETED CURATIVE THERAPY AGAINST HIV-1**
Himanshu Batra, Jingen Zhu, Swati Jain, Neeti Ananthswamy, Marthandan Mahalingam, Pan Tao, Mary F. Kearney, Frank Maldarelli, Venigalla Rao
- 365 DISTINCT VULNERABILITY OF VIRAL RESERVOIR CELLS TO NK CELL-MEDIATED IMMUNE EFFECTS**
Stephane Hua, Hsiao-Hsuan Kuo, Shivaali Maddali, Kevin Einkauf, Chenyang Jiang, Xiaodong Lian, Mathias Lichterfeld, Xu G. Yu
- 367 WITHDRAWN/INTENTIONALLY UNASSIGNED**
- 368 WITHDRAWN/INTENTIONALLY UNASSIGNED**

Poster P-E08 MECHANISMS OF LATENCY

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 374 VPU CONTROLS HIV-1 LATENCY THROUGH MODULATION OF THE NF- κ B PATHWAY**
Gloria Martrus, Rebecca Cornelis, Johannes Brandi, Smitha Srinivasachar Badarinarayan, Gwladys W. Haslé, Annika Niehrs, Jonathan Chow, Leonard U. Hess, Julia K. Bialek, Angelique Hölzemer, Wilfredo García Beltran, Frank Kirchhoff, Daniel Sauter, Marcus Altfeld
- 375 FORMATION OF THE REPLICATION-COMPETENT HIV-1 RESERVOIR COINCIDES WITH ART INITIATION**
Melissa-Rose Abrahams, Sarah B. Joseph, Nigel Garrett, Lynn Tyers, Matthew Moeser, Nancie Archin, Olivia Council, David Matten, Shuntai Zhou, Colin Anthony, Salim Abdool Karim, David M. Margolis, Sergei L. Kosakovsky Pond, Carolyn Williamson, Ronald Swanstrom
- 376 TCR-ACTIVATED CD8+ T CELLS PROMOTE THE ESTABLISHMENT OF HIV LATENCY IN CD4+ T CELLS**
Michelle Zanoni, David J. Palesch, Claudia Pinacchio, Deanna Kulpa, Guido Silvestri
- 377 METHYLATION PROFILES OF HIV-1 PROVIRAL DNA IN ART-SUPPRESSED INDIVIDUALS**
Valerie F. Boltz, Cristina Ceriani, Wei Shao, Michael J. Bale, Leslie Lipkey, Laura Newman, Brandon F. Keele, Jonathan Spindler, Rebecca Hoh, Jeffery Milush, Steven G. Deeks, Frank Maldarelli, Mary F. Kearney, John M. Coffin
- 378 THE HIV ANTISENSE TRANSCRIPT AST INDUCES VIRAL LATENCY VIA SEVERAL SILENCING PATHWAYS**
 Wei Zhou, Kaveh Daneshvar, Michelle Pleet, Francesca Benedetti, Gideon Wolf, Davide Zella, Fatah Kashanchi, Balasubrahmanyam Addepalli, Alan Mullen, **Fabio Romero**
- 379 TARGETING SPHINGOSINE-1-PHOSPHATE TO PREVENT LATENT HIV INFECTION**
 Rachel Resop, Rémi Fromentin, Amanda Macedo, Hawley Rigsby, Nicolas Chomont, **Alberto Bosque**

Poster P-E10 INSIGHTS FROM ANALYTICAL TREATMENT INTERRUPTION

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- 389 ANALYTICAL TREATMENT INTERRUPTION (ATI) IN PATIENTS WITH VERY SMALL HIV RESERVOIR**
Pieter Pannus, Sofie L. Rutsaert, Stephane de Wit, Sabine Allard, Guido Vanham, Coca Necsoi, Joeri Aerts, Ward De Spiegelaere, Achilleas Tsoumanis, Marie Couttenye, Natacha Herssens, Linos Vandekerckhove, **Eric Florence**
- 390 N-803 INDUCES ROBUST SIV REACTIVATION IN ART-TREATED CD8-DEPLETED MACAQUES**
Julia B. McBrien, Maud Mavigner, Stacey A. Smith, Erick R. White, Thomas Vanderford, Jake D. Estes, Jeffrey D. Lifson, John H. Lee, Jeffrey T. Safrit, J. V. Garcia, Mirko Paiardini, Steven E. Bosinger, Cynthia Derdeyn, Ann Chahroudi, Guido Silvestri
- 391 REBOUND OF HIV-1 IN CEREBROSPINAL FLUID AFTER TREATMENT INTERRUPTION**
Richard W. Price, Maria Bednar, Laura P. Kincer, Rebecca Hoh, Magnus Gisslén, Sarah B. Joseph, Serena S. Spudich, Steven G. Deeks, Ronald Swanstrom
- 392 COMPARTMENTALIZED HIV REBOUND IN THE MALE GENITAL TRACT AFTER ART INTERRUPTION**
Sara Gianella, Antoine Chaillon, Tae-Wook Chun, Caroline Ignacio, Colin Kovacs, Erika Benko, Sanja Huibner, Rupert Kaul
- 393 SEEKING SUPPRESSION IN HAVARTI: VIREMIA & T CELLS AFTER VEDOLIZUMAB & ATI IN HIV/ART**
Michaeline McGuinty, Jonathan Angel, Ashok Kumar, Richmond Sy, Sanjay Murthy, Donald Kilby, Nancy Tremblay, Elizabeth Lavoie, Stephanie Burke Schinkel, Siddappa N. Byrareddy, D. William Cameron, for the HAVARTI CTNPT031 study team
- 394 LB ANALYTIC TREATMENT INTERRUPTION (ATI) AFTER ALLOGENEIC CCR5-D32 HSCT FOR AML IN 2013**
Björn-Erik O. Jensen, Elena Knops, Nadine Lübke, Annemarie Wensing, Javier Martinez-Picado, Rolf Kaiser, Monique Nijhuis, Maria Salgado, Thomas Harrer, Eva Heger, Johanna M. Eberhard, Ilona Hauber, Carsten Münk, Dieter Häussinger, Guido Kobbe

Poster P-E11 HUMAN STUDIES OF CURATIVE STRATEGIES AND ATI

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- 395 TELMISARTAN DECREASES HIV-1 RNA IN LYMPH NODES IN TREATED HIV INFECTION**
Netanya S. Utay, Jordan E. Lake, Claire Deleage, Douglas W. Kitch, Eunice Yeh, Karin L. Klingman, Michael M. Lederman, Carl Fichtenbaum, Daniel Douek, Judith S. Currier, Jacob D. Estes, for the A5317 Team
- 396 DEPLETION OF BLOOD PD-1+ CD4 T CELLS BY A-PD-1 ADC SUPPRESSES HIV INFECTION IN VITRO**
Patricia Jacquier, Craig Fenwick, Song Ding, Giuseppe Pantaleo
- 397 CHARACTERIZATION OF HIV-1 TRANSCRIPTION PROFILE AFTER ROMIDEPSIN THERAPY IN VIVO**
Sara Moron-Lopez, Peggy Kim, Ole S. Søgaard, Martin Tolstrup, Joseph K. Wong, Steven A. Yukl

- 398 THE IMPACT OF VORINOSTAT AND THERAPEUTIC VACCINE ON GUT HIV DNA: THE RIVER GUT STUDY**
John P. Thornhill, Carolina Herrera, Jonathan Hoare, Simon Peake, Helen Brown, Nneka Nwokolo, Julie Fox, Tomas Hanke, John Frater, Sarah Fidler, for the the RIVER trial investigators
- 399 RANDOMIZED TRIAL OF IMPACT OF MULTIPLE INTERVENTIONS ON HIV RESERVOIR: SPARC-7 TRIAL**
Ricardo S. Diaz, Leila B. Giron, James Hunter, Juliana Galinskas, Danilo A. Dias, Sadia Samer, Muhammad S. Arif, Juliana T. Maricato, Maria A. Juliano, Maria Cecilia Araripe Sucupira, Luis M. Janini, Andrea Savarino, Luiz Rodolfo R. Travassos, for the SPARC WORKING GROUP
- 400 IMPACT OF EVEROLIMUS THERAPY ON HIV PERSISTENCE, IMMUNE FUNCTION, AND GENE EXPRESSION**
Corinna N. Schreiner, Cheryl A. Cameron, Louise Hogan, Rachel L. Rutishauser, Simon Chu, Brian Richardson, Rodney Rogers, Cassandra Thanh, Sonia Bakkour, Michael P. Busch, Jeffrey M. Milush, Rafick-Pierre Sekaly, Peter Stock, Steven G. Deeks, Timothy J. Henrich
- 401 NEUROTOXICITY WITH HIGH-DOSE DISULFIRAM AND VORINOSTAT USED FOR LATENCY REVERSAL**
James McMahon, Vanessa Evns, Jillian S. Lau, Ajantha Solomon, Surekha Tennakoon, Ashanti Dantanarayana, Michelle Hagenauer, Sulggi Lee, Sarah Palmer, Katie Fisher, Namandje Bumpus, David M. Burger, Bonnie J. Howell, Thomas A. Rasmussen, Sharon R. Lewin
- 402 ANOGENITAL HIV DETECTED DURING ANALYTIC TREATMENT INTERRUPTION IN REMISSION TRIALS**
Donn J. Colby, Rapee Trichavaroj, Suteeraporn Pinyakorn, Siriwat Akapirat, Trevor A. Crowell, Eugène Kroon, Khunthalee Benjapornpong, Somporn Tipsuk, Carlo Sacdalan, Praphan Phanunphak, Merlin L. Robb, Nittaya Phanuphak, Mark de Souza, Jintanat Ananworanich, for the RV254/SEARCH010 Study Team
- 403 IMPACT OF ATI ON HIV RESERVOIRS AND IMMUNE PARAMETERS IN EARLY TREATED INDIVIDUALS**
Erin Huiting, Jana Blazkova, Jesse Justement, Victoria Shi, Kathleen Gittens, Susan Moir, Michael Sneller, Anthony S. Fauci, Tae-Wook Chun
- 404 DETECTION OF CELL-ASSOCIATED HIV-1 NUCLEIC ACID IN BLOOD AFTER EARLY ART**
Linda Jagodzinski, Mark M. Manak, Holly R. Hack, Jennifer Malia, Nittaya Phanuphak, Mark de Souza, Eugène Kroon, Donn J. Colby, Nitiya Chomchey, Merlin L. Robb, Nelson L. Michael, Jintanat Ananworanich, Sheila A. Peel, for the RV254/SEARCH010 study group
- 405 ALTRUISM IN END OF LIFE HIV RESEARCH: INSIGHTS FROM LAST GIFT STUDY**
Karine Dube, Anshula Nathan, Kushagra Mathur, Susanna Concha-Garcia, Hursch Patel, Andy Kaytes, **Jeff Taylor**, Davey M. Smith, Sara Gianella
- 406 WITHDRAWN/INTENTIONALLY UNASSIGNED**

Poster P-F2 NEUROPATHOGENESIS AND MODELING: HIV AND SIV

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- 427 SHIV GENE EXPRESSION IN CSF CD4 T CELLS DURING ACUTE INFECTION OF RHESUS MACAQUES**
Vishakha Sharma, Matthew Creegan, Sandhya Vasan, Michael A. Eller, Diane Bolton

- 428 IN VIVO REPLICATION AND NEUROPATHOGENESIS OF T/F CLADE C SHIVs**
Debashis Dutta, Srijayaprakash Uppada, Olwenyi A. Omalla, Lindsey A. Knight, Kabita A. Pandey, Samuel A. Johnson, Celia C. Lebranche, David C. Montefiori, Siddappa N. Byrareddy
- 429 EVOLVING SIV REGIONAL BRAIN INJURY AND RECOVERY ARE LINKED TO ANTIOXIDANT EXPRESSION**
Yoelvis Garcia-Mesa, Brandon L. Bastien, Rolando Garza, Analise Gruenewald, Michael R. Betts, Guido Silvestri, Dennis L. Kolson
- 430 DOLUTEGRAVIR ACCUMULATES IN THE FETAL BRAIN FOLLOWING IN UTERO EXPOSURE**
Aditya N. Bade, Benson Edagwa, JoEllyn McMillan, Gary E. Siuzdak, Howard E. Gendelman
- 431 HIV BASAL-GANGLIA INJURY CORRELATES WITH ANTIOXIDANT & ENDOTHELIAL ADHESION MARKERS**
Analise Gruenewald, Rolando Garza, Yoelvis Garcia-Mesa, Patricia J. Vance, Benjamin B. Gelman, Dennis L. Kolson
- 432 PLATELET-ENDOTHELIAL INTERACTIONS MAY PROTECT AGAINST VIRAL ENTRY IN THE BRAIN**
 Claire E. Lyons, Hannah Schneider, Elizabeth L. Engle, Kevin M. Najjarro, Suzanne E. Queen, Craig N. Morrell, Joseph Mankowski, **Kelly A. Metcalf Pate**
- 433 HIV-1 INDUCED NEUROPATHOLOGY OF A HUMANIZED MICROGLIAL MOUSE**
Saumi Mathews, Edward Makarov, Howard E. Gendelman, Larisa Y. Poluektova, Santhi Gorantla
- 434 MTDNA HAPLOGROUP B IS ASSOCIATED WITH EXECUTIVE FUNCTION AND RECALL IN HISPANIC PLWH**
Karen E. Volpe, Todd Hulgán, David C. Samuels, Asha R. Kallianpur, Ronald J. Ellis, Donald Franklin, Scott L. Letendre, Robert K. Heaton
- 435 MECHANISMS OF WHITE-MATTER LOSS DUE TO HIV INFECTION AND ANTIRETROVIRAL THERAPY**
Kelly L. Jordan-Sciutto, Lindsay M. Roth, Bassam N. Zidane, Micah Romer, Cagla Akay-Espinoza, Judith B. Grinspan

Poster P-F3 CNS DRUG TOXICITY: ART, HDAC, AND OTHERS

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- 436 SWITCHING TO FTC/TAF FROM ABC/3TC OR FTC/TDF DOES NOT AFFECT CNS HIV-1 INFECTION**
 Aylin Yilmaz, Lars Hagberg, Åsa Mellgren, Dietmar Fuchs, Staffan Nilsson, Kaj Blennow, Henrik Zetterberg, **Magnus Gisslén**
- 437 POLYPHARMACY IS ASSOCIATED WITH WORSE NEUROCOGNITIVE PERFORMANCE IN AGING ADULTS**
Qing Ma, Ronald J. Ellis, Leah H. Rubin, Norman J. Haughey, Donald Franklin, Anne Bang, Rowan Saloner, Mariana Cherner, David J. Moore, Scott L. Letendre
- 438 CENTRAL NERVOUS SYSTEM SAFETY OF A KICK-AND-KILL STRATEGY WITH ROMIDEPSIN**
 Sara Carrillo-Molina, Ignacio Martínez-Zalacaín, Beatriz Mothe, José Moltó, Christian Manzardo, Jose M. Miro, Josep Coll, Michael Meulbroek, Anna Prats, Maite Garolera, Tomas Hanke, Christian Brander, Carles Soriano-Mas, **Jose A. Muñoz-Moreno**, for the BCN02-Neuro Substudy Group

- 439 CENTRAL NERVOUS SYSTEM EFFECTS OF THERAPY INITIATION WITH INTEGRASE INHIBITORS**
 Anna Prats, Ignacio Martínez-Zalacaín, Beatriz Mothe, Eugènia Negredo, Maite Garolera, Sira Domènech-Puigcerver, Michael Meulbroek, Carmina R. Fumaz, Maria J. Ferrer, Bonaventura Clotet, Carles Soriano-Mas, **Jose A. Muñoz-Moreno**, for the ARBRE Study Group
- 440 NEUROPSYCHIATRIC OUTCOMES BEFORE AND AFTER SWITCHING TO DOLUTEGRAVIR-BASED THERAPY**
Phillip Chan, Orlanda Goh, Eugène Kroon, Donn J. Colby, Carlo Sacdalan, Suteeraporn Pinyakorn, Somporn Tipsuk, Nittaya Phanuphak, Praphan Phanuphak, Jintanat Ananworanich, Victor Valcour, Serena S. Spudich, Robert Paul, for the RV254/SEARCH010
- 441 NEUROPSYCHOLOGICAL CHANGES IN EFAVIRENZ SWITCH REGIMENS IN MACS**
Yijia Li, Zheng Wang, Yu Cheng, James T. Becker, Eileen Martin, Andrew Levine, Leah H. Rubin, Ann B. Ragain, Ned Sacktor, University o. Pittsburgh
- 442 MEMORY AND LEARNING DYSFUNCTION WITH INTEGRASE STRAND TRANSFER INHIBITORS USE**
Jane A. O'Halloran, Sarah A. Cooley, Jeremy Strain, Robert Paul, Rachel Presti, Beau Ances
- 443 CEREBRAL FUNCTION PARAMETERS IN PEOPLE LIVING WITH HIV SWITCHING INTEGRASE INHIBITOR**
Borja Mora-Peris, Laura Else, Jaime Vera-Rojas, Caire Petersen, Maryam Khan, Sujana Dilly Penchala, Sofia Toniolo, Mara Cercignani, Michael R. Keegan, Saye Khoo, Alan Winston
- 444 EARLY ART IN ACUTE HIV LIMITS DETRIMENTAL CX3CR1 MONOCYTES LINKED TO CNS DYSFUNCTION**
Michelle L. D'Antoni, Phillip Chan, Danielle M. Clements, Yotin Chinvarun, Vedbar S. Khadka, Somporn Tipsuk, Robert Paul, Nitiya Chomchey, Donn J. Colby, Jintanat Ananworanich, Robert Gramzinski, Serena S. Spudich, Lishomwa C. Ndhlovu, for the RV254/SEARCH010; SEARCH013 and SEARCH011 study groups
- 445 ART IN EARLY INFECTION IMPROVES NEUROCOGNITION REGARDLESS OF INFECTION DURATION**
Kevin Robertson, Javier R. Lama, Peter Brandes, Eduardo Ruiz, Cecilia Correa, Eline Appelmans, Siavash Pasalar, Lindsay Haselden, Rachel A. Bender Ignacio, Serena S. Spudich, Christopher D. Pilcher, Ann Duerr, for the SABES team

Poster P-G2 ARV AND ANTIHEPATITIS PHARMACOKINETICS, PHARMACOGENETICS, AND DRUG INTERACTIONS

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- 466 POLYPHARMACY, INAPPROPRIATE DRUGS, AND DRUG-DRUG INTERACTIONS IN HIV-INFECTED ELDERLY**
Perrine Courlet, Catia Marzolini, Matthias Cavassini, Manuel Battegay, Susana Alves Saldanha, Deolinda Alves, Vreneli Waelti Da Costa, Chantal Csajka, Laurent A. Decosterd
- 467 DRUG-INTERACTION MAGNITUDES IN YOUNG VS ELDERLY: EXAMPLE OF RIVAROXABAN-DARUNAVIR/R**
Felix Stader, Marco Siccardi, Hannah Kinvig, Manuel Battegay, Melissa A. Penny, Catia Marzolini

- 468 THE ROLE OF OATP1B1 IN GRAZOPREVRIL DRUG-DRUG INTERACTIONS AND THE ELDERLY**
Hannah Kinvig, Felix Stader, Owain Roberts, Andrew Owen, Catia Marzolini, Marco Siccardi
- 469 INTRACELLULAR SOFOSBUVIR (SOF) CONCENTRATIONS IN PERSONS WITH HCV AND COCAINE USE**
Kristina M. Brooks, Jose R. Castillo-Mancilla, Mary Morrow, Samantha MaWhinney, Ryan T. Huntley, Joshua Blum, David L. Wyles, Lane R. Bushman, Peter L. Anderson, Jennifer J. Kiser
- 470 PREDICTION OF RENAL OAT1 AND OAT3 INHIBITION BY CABOTEGRAVIR USING PBPK MODELLING**
Kunal S. Taskar, Aarti Patel, Simon J. Cozens, Susan Ford, William Spreen, MArk Baker, Parul Patel
- 471 INFLUENCE OF UGT1A1*28 ON RALTEGRAVIR PK/PD IN THE NEAT001/ANRS143 STUDY**
Rohan M. Gurjar, Laura Dickinson, Daniel F. Carr, Wolfgang Stohr, Stefano Bonora, Andrew Owen, Antonio D'Avolio, Adam Cursley, Jean-Michel Molina, Gerd Fätkenheuer, Giovanni Di Perri, Anton Pozniak, Laura Richert, François Raffi, Marta Boffito
- 472 PHARMACOGENETICS OF WEIGHT GAIN AFTER SWITCH FROM EFAVIRENZ TO INTEGRASE INHIBITORS**
Michael Leonard, Kassem Bourgi, John R. Koethe, Megan M. Turner, Jamison Norwood, Beverly O. Woodward, Husamettin Erdem, Rebecca Basham, Paxton Baker, Peter F. Rebeiro, Timothy R. Sterling, Todd Hulgán, David Haas
- 473 HORMONAL CONTRACEPTIVES DO NOT ALTER CABOTEGRAVIR PK IN HIV-UNINFECTED WOMEN HPTN 077**
Cherie Blair, Sue Li, Gordon Chau, Leslie Cottle, Paul Richardson, Mark A. Marzinke, Susan H. Eshleman, Adeola Adeyeye, David Burns, Alex Rinehart, David A. Margolis, Marybeth McCauley, Craig W. Hendrix, Raphael J. Landovitz, for the HPTN 077 Study Team

Poster P-H3 VIROLOGIC FAILURES: TO SECOND LINE AND BEYOND

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- 495 DISCONTINUATIONS & VIROLOGIC RESPONSE IN LATE PRESENTERS WITH InSTI- OR PI-BASED ART**
Gundolf Schuettfort, Lena Boekenkamp, Alfonso Cabello, Aoife G. Cotter, Marta Del Palacio Tamarit, Miguel Górgolas, Lisa Hamzah, Eva Herrmann, Pavel Khaykin, Patrick W. Mallon, Alvaro Mena, Caroline Sabin, Timo Wolf, Christoph Stephan, Annette E. Haberl
- 496 QUALITY OF LIFE AND ADHERENCE AS PREDICTORS OF SECOND-LINE ART VIROLOGICAL FAILURE**
Thiago S. Torres, Linda J. Harrison, Alberto M. La Rosa, Lu Zheng, Ann Collier, Michael D. Hughes, for the AIDS Clinical Trials Group (ACTG) A5273 Study Group
- 497 LOW LEVEL VIREMIA AND VIROLOGIC FAILURE IN PERSONS WITH HIV TREATED WITH ART**
Julia Fleming, Kelly Gebo, Richard Rutstein, W. C. Mathews, Judith Aberg, Charurut Somboonwit, Laura W. Cheever, Richard D. Moore, for the HIV Research Network
- 498 SECOND-LINE ANTIRETROVIRAL THERAPY (ART) AFTER FIRST VIRAL FAILURE ON ART, 2008-2016**
Thibaut Davy-Mendez, Sonia Napravnik, Oksana Zakharova, Joseph J. Eron

499 PREDICTORS OF VIROLOGIC OUTCOME WHILE CONTINUING A PI-BASED ART REGIMEN IN ACTG A5288

Robert A. Salata, Beatriz Grinsztejn, Justin Ritz, Ann Collier, Peter Mugenyi, Evelyn Hogg, Linda Wieclaw, Robert Gross, Catherine Godfrey, Nagalingeswaran Kumarasamy, Cecilia Kanyama, John W. Mellors, Carole Wallis, Michael D. Hughes

Poster P-H4 SECONDARY ANALYSIS AND DESIGN ISSUES IN CLINICAL TRIALS AND OBSERVATION STUDIES

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500 WEEK 96 SUBGROUP ANALYSES OF D/C/F/TAF IN HIV-1 TREATMENT-NAIVE & SUPPRESSED ADULTS

Gregory D. Huhn, Edwin DeJesus, Pierre-Marie Girard, Cheryl McDonald, Cristina Mussini, Christoph D. Spinner, John Jezorwski, Romana Petrovic, Erika Van Landuyt, Erkki Lathouwers, Kimberley Brown, Bryan Baugh, for the AMBER/EMERALD Study Groups

501 INTEGRATED EFFICACY ANALYSIS OF DORAVIRINE IN HIV-1- INFECTED TREATMENT-NAIVE ADULTS

Chloe Orkin, Jean-Michel Molina, Johan Lombaard, Wing-Wai Wong, Edwin DeJesus, Anthony Rodgers, Xia Xu, Sushma Kumar, Elizabeth Martin, George G. Hanna, Carey Hwang

502 96 WEEK EFFICACY AND SAFETY OF B/F/TAF IN TREATMENT- NAIVE ADULTS AND ADULTS ≥ 50 YRS

Samir K. Gupta, Anthony Mills, Cynthia Brinson, Kimberly Workowski, Amanda Clarke, Andrea Antinori, Jeffrey L. Stephens, Ellen Koenig, Jose R. Arribas, David M. Asmuth, Douglas Ward, Jürgen K. Rockstroh, Mingjin Yan, Diana Brainard, Hal Martin

503 CD4+ RECOVERY AFTER ART INITIATION: A COMPARISON BETWEEN DOLUTEGRAVIR AND EFAVIRENZ

Mariana V. Meireles, **Ana R. Pati Pascom**, Adele Benzaken

504 VIROLOGIC AND IMMUNOLOGIC OUTCOMES OF INTEGRASE INHIBITORS (InSTIs) IN RESPOND

Bastian Neesgaard, for the International Cohort Consortium of Infectious Diseases: RESPOND

505 LB 12 MONTH OUTCOMES ON DOLUTEGRAVIR-BASED REGIMENS IN BOTSWANA: THE BEAT COHORT STUDY

Ava Avalos, Tendani Gaolathe, Danae Brown, Vani Vannappaggari, Heston Phillips, Pinkie Melamu, Dinah Ramaabya, Bornaparte Nkomo, Kabo Matlho, Kaelo Seatla, Joseph N. Jarvis, Sikhulile Moyo, Mogomotsi Matshaba, Simani Gaseitsiwe, for the The Botswana Epidemiological ART Treatment Cohort Study Team

506 PREDICTORS OF SWITCHING FROM TDF TO TAF: REAL-WORLD DATA FROM A NATIONWIDE STUDY

Bernard Surial, Matthias Cavassini, Alexandra Calmy, Jan S. Fehr, Marcel Stoeckle, Enos Bernasconi, Pietro L. Vernazza, Christoph A. Fux, Helen Kovari, Hansjakob Furrer, Andri Rauch, **Gilles Wandeler**, for the Swiss HIV Cohort Study

507 SEVEN-YEAR TREATMENT RESPONSES IN SUBTYPE A1 VS D HIV-1 INFECTIONS IN MBARARA, UGANDA

Guinevere Q. Lee, Nicholas Musinguzi, David B. Gootenberg, Suzanne McCluskey, Yap Boum, Bosco M. Bwana, Conrad Muzoora, Simone Kigozi, Peter W. Hunt, Jeffrey N. Martin, David R. Bangsberg, Jessica E. Haberer, Mark J. Siedner, P. Richard Harrigan, Musie Ghebremichael

508 HIV CONTROLLERS MAINTAIN VIRAL SUPPRESSION DESPITE WANING T-CELL RESPONSES ON ART

Nikolaus Jilg, Pilar Garcia-Broncano, Michael Peluso, Florencia Pereyra, Ronald Bosch, Carla Roberts-Toler, Cornelius N. Van Dam, Michael Keefer, Daniel R. Kuritzkes, Alan Landay, Steven G. Deeks, Xu G. Yu, Paul E. Sax, Jonathan Z. Li

509 RESTRICTED MEAN SURVIVAL TIME AS A TREATMENT MEASURE IN HIV/AIDS CLINICAL TRIALS

Xian Abulizi, Philippe Flandre, **Heather Ribaud**

Poster P-H5 STRATEGIES: OLD AND NEW

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510 HOME VS SELF-INITIATED ART REFILL: CLINICAL, IMMUNOLOGICAL, AND VIROLOGIC OUTCOMES

Rory F. Leisegang, Jane Ball, Mark Cotton, David Dowdy, Keri Calkins, Susan Cleary, Gary Maartens, Jean B. Nachega

511 EFFECTIVENESS OF SINGLE- VS MULTIPLE-TABLET REGIMENS AS 1ST-LINE ART IN ICONA COHORT

Annalisa Mondì, Patrizia Lorenzini, Alessandro Tavelli, Alessandro Cozzi-Lepri, Franco Maggiolo, Nicola Gianotti, Daniela Francisci, Chiara Carcieri, Andrea De Vito, Antonio Di Biagio, Antonella D'Arminio Monforte, Andrea Antinori, for the Icona Foundation Study Group

512 BETTER VIROLOGICAL OUTCOMES WHEN INITIATING EARLY ART IN THE HPTN 071 (POPART) TRIAL

Geoffrey Fatti, **Ashraf Grimwood**, Jean B. Nachega, Jenna Nelson, Kelsea LaSorda, Gert U. van Zyl, Nelis Grobbelaar, Helen Ayles, Richard Hayes, Nulda Beyers, Sarah Fidler, Peter Bock

513 RCT OF INDIVIDUALIZED COMMUNICATION STRATEGY AMONG HIV-INFECTED PERSONS STARTING ART

Marcelo H. Losso, Marisa Fuentes, Valentina Losso, Martha Michaan, Lea Pastore, Lorena Puente, Amalia Vazquez, **Manuela Bullo**

514 PROJECT RHAE: A PILOT STUDY OF RAPID ART START AND RESTART IN BALTIMORE CITY

Joyce Jones, Yu-Hsiang Hsieh, Geetanjali Chander, Kathleen Page, Richard Rothman, Richard D. Moore

515 HIGH RATES OF VIROLOGIC SUPPRESSION AFTER RAPID ART START IN A SAFETY-NET CLINIC

Susa Coffey, Peter Bacchetti, Darpun Sachdev, Oliver Bacon, Clarissa Ospina-Norvell, Sandra Torres, Elizabeth Lynch, Sulggi Lee, Katerina A. Christopoulos, Christopher D. Pilcher, Ling Hsu, Chengshi Jin, Susan Scheer, Diane V. Havlir, Monica Gandhi

Poster P-I3 NEW MECHANISMS OF RESISTANCE AND NEW DETECTION METHODS

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539 A COMPARATIVE EVALUATION OF HIV-1 CAPSID INHIBITOR SUSCEPTIBILITY

Alicia Newton, Charity Ting, Lan Trinh, Christos Petropoulos, Wei Huang

540 IDENTIFICATION OF ARV-RESISTANCE MUTATIONS OUTSIDE OF THE DRUG-TARGET GENE

Puong Pham, Rachel Van Duyne, Eric O. Freed

541 EMERGENCE OF GAG MUTATION, A364V, IDENTIFIED AS THE KEY IN VITRO RESISTANCE MUTATION

Charlene McDanal, Pauline Schipper, Monique Nijhuis, Jerry Jeffrey, Brian A. Johns

542 COMPARISON OF NEXT-GENERATION SEQUENCING ANALYSIS PIPELINES FOR HIV-1 DRUG RESISTANCE

Emma R. Lee, Eric Enns, Neil Parkin, Chanson J. Brumme, Mark Howison, Santiago Avila-Rios, Cheryl Jennings, Gary Van Domselaar, Marc Noguera-Julian, P. Richard Harrigan, Miguel E. Quinones-Mateu, Roger Paredes, Rami Kantor, Paul Sandstrom, Hezhao Ji

543 HIV RESISTANCE—ASSOCIATED MUTATIONS OBSERVED IN CELL-ASSOCIATED DNA SEQUENCING ASSAY

Dongmei Yang, Johnny Lai, Suqin Cai, Jonathan Toma, Yuping Tan, Christos Petropoulos, **Charles Walworth**, Jeannette Whitcomb

544 DETECTION OF ARCHIVED MUTATIONS IN PATIENTS INFECTED WITH MULTICLASS RESISTANT HIV-1

Martin Daeumer, Eva Wolf, Markus Bickel, Albrecht Stoehr, Silke Heldwein, Heribert Knechten, Patrick Braun, Stefan Esser, Ivanka Krznaric, Christoph Wyen, Markus Müller, Jürgen Brust, Jan-Christian Wasmuth, Alexander Thielen, **Christian Hoffmann**

545 LB LTR TRANSLOCATION MUTATIONS UNDER HIGH-LEVEL CABOTEGRAVIR MAINTAIN HIV REPLICATION

Xierong Wei, Jonathan T. Lipscomb, Ariana P. Santos, Mian-er Cong, Susan Ruone, Gerardo Garcia-Lerma, **Jeffrey A. Johnson**

Poster P-14 ACTIVITY OF DRUGS AGAINST RESISTANT VIRUS

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546 ANTIVIRAL ACTIVITY OF TENOFOVIR ALAFENAMIDE AGAINST HIV-1 HARBORING K65R

Stephanie W. Cox, Nicolas A. Margot, Renee R. Ram, Christian Callebaut

547 GSS OF NRTI-BACKBONE PREDICTS TIME TO VIROLOGICAL FAILURE OF INI-BASED REGIMENS

Alberto Borghetti, Arturo Ciccullo, Francesca Lombardi, Gianmaria Baldin, Simone Belmonti, Mattia Prosperi, Francesca Incardona, Eva Heger, Vanni Borghi, Anders Sönnnerborg, Simona Di Giambenedetto, for the INTEGRATE - EuResist Group

548 GENOTYPIC AND PHENOTYPIC SUSCEPTIBILITY TO FOSTEMSAVIR IN MULTIDRUG-RESISTANT HIV-1

Francesco Saladini, Alessia Giannini, Franco Maggiolo, Francesca Vichi, Giulio M. Corbelli, Andrea Galli, Alba Bigoloni, Maria M. Santoro, Maurizio Zazzi, Antonella Castagna, for the PRESTIGIO Study Group

549 IN VITRO ACTIVITY OF DTG/BIC/E/CAB ON FIRST-GENERATION INSTI-RESISTANT HIV-1

Francesco Saladini, Alessia Giannini, Adele Boccuto, Filippo Dragoni, Alice Appendino, Edoardo Albanesi, Ilaria Vicenti, Maurizio Zazzi

550 SUSCEPTIBILITY TO BICTEGRAVIR IN HIGHLY ARV-EXPERIENCED PATIENTS AFTER INSTI FAILURE

Maria M. Santoro, Chiara Fornabaio, Marina Malena, Laura Galli, Andrea Poli, Simone Marcotullio, Marianna Menozzi, Maurizio Zazzi, Kirsten L. White, Antonella Castagna, for the PRESTIGIO Study Group

551 HIGH LEVEL OF PREEXISTING NRTI RESISTANCE PRIOR TO SWITCHING TO B/F/TAF: STUDY 4030

Rima K. Acosta, Madeleine Willkom, Kristen Andreatta, Hui Liu, Ross Martin, Silvia Chang, Hal Martin, Sean Collins, Kirsten L. White

552 LONG-TERM B/F/TAF SWITCH EFFICACY IN PATIENTS WITH ARCHIVED PREEXISTING RESISTANCE

Kristen Andreatta, Madeleine Willkom, Ross Martin, Silvia Chang, Hui Liu, Ya-Pei Liu, Hiba Graham, Hal Martin, Kirsten L. White

553 ACTIVITY OF BICTEGRAVIR AGAINST HIV-2 ISOLATES AND IN-RESISTANT HIV-2 MUTANTS

Robert A. Smith, Dana Raugi, Vincent H. Wu, Christopher Zavala, Jennifer Song, Moussa Seydi, Geoffrey S. Gottlieb, for the University of Washington-Dakar HIV-2 Study Group

Poster P-K3 HCV TRANSMISSION: THE (MOLECULAR) WEBS WE WEAVE
Poster Hall - 4EF **2:30 PM - 4:00 PM**

591 TEMPORAL PATTERNS IN HCV PHYLOGENETIC CLUSTERING AMONG PWID IN BALTIMORE, MD

Jada Hackman, Oluwaseun Falade-Nwulia, Eshan U. Patel, Shruti H. Mehta, Zach Downing, Gregory D. Kirk, Jacquie Astemborski, Stuart C. Ray, David L. Thomas, Oliver Laeyendecker

592 COMPLEX PHYLODYNAMICS OF HCV AMONG PWID IMPACT INFERENCE OF TRANSMISSION NETWORKS

Rebecca Rose, Christopher W. Rodriguez, James J. Dollar, Susanna Lamers, Guido Massaccesi, William Osburn, Stuart C. Ray, David L. Thomas, Andrea Cox, **Oliver Laeyendecker**

593 PHYLOGENETIC EVIDENCE FOR INTERCITY HCV CLUSTERS OF PEOPLE WHO INJECT DRUGS IN INDIA

Steven J. Clipman, Mary A. Rodgers, Shanmugam Saravanan, Priya Duggal, Shruti H. Mehta, Aylur K. Srikrishnan, Muniratnam S. Kumar, Allison M. McFall, Gregory M. Lucas, Thomas C. Quinn, Gavin Cloherty, Sunil S. Solomon

594 PHYLODYNAMICS OF ACUTE HCV INFECTION IN MEN HAVING SEX WITH MEN

Gonché Danesh, Victor Virlogeux, Christophe Ramiere, Caroline Charre, Samuel Alizon, Laurent Cotte

595 VALIDATION OF A GENOTYPE-INDEPENDENT HEPATITIS C WHOLE-GENOME SEQUENCING ASSAY

Hope R. Lapointe, Weiyang Dong, Winnie W. Dong, Don Kirkby, Conan K. Woods, Art Poon, Anita Y. Howe, P. Richard Harrigan, Chanson J. Brumme

596 HPTN 078: HIGH PREVALENCE OF HCV ANTIBODIES AMONG MEN WHO HAVE SEX WITH MEN

Risha Irvin, Theresa Gamble, Jowanna Malone, Zhe Wang, Ethan A. Wilson, James P. Hughes, Jason Farley, Kenneth H. Mayer, Carlos del Rio, D. Scott Batey, Susan H. Eshleman, Robert H. Remien, Chris Beyrer, Chloe Thio, for the HPTN 078 Research Group

597 EPIDEMIC HISTORY OF HEPATITIS C VIRUS AMONG MSM IN AMSTERDAM, THE NETHERLANDS

Jelle Koopsen, Thijs J. Van de Laar, Colin Russell, Maria Prins, Elske Hoornenborg, Alvin Han, Edyth Parker, Marc van der Valk, Janke Schinkel

- 598 RISK FACTORS AND PATTERNS OF HCV TRANSMISSION IN MEN WHO HAVE SEX WITH MEN IN ENGLAND**
Daniel Bradshaw, Tetyana Vasylyeva, Chris Davis, Oliver Pybus, Julien Theze, Emma Thomson, Marianne Martinello, Gail Matthews, Ruth Burholt, Yvonne Gilleece, Graham S. Cooke, Emma E. Page, Laura Waters, Mark Nelson
- 599 SURGE IN HEPATITIS C INCIDENCE ASSOCIATED WITH SYPHILIS INFECTION AMONG THAI MSM**
Win Min Han, Tanakorn Apornpong, Stephen J. Kerr, Sasiwimol Ubolyam, Sivaporn Gatechompol, Tanyaporn Wansom, Gail Matthews, Pisit Tangkijvanich, Kiat Ruxrungtham, Praphan Phanunphak, Anchalee Avihingsanon
- 600 HCV-GT1A SPATIOTEMPORAL DISTRIBUTION, EPIDEMIC HISTORY, AND NS5A RESISTANCE IN SPAIN**
Claudia Palladino, Ifeanyi J. Ezeonwumelu, Pedro Borrego, Irene Matecano, Paula Martínez-Román, Sonia Arca-Lafuente, Salvador Resino, Nuno Taveira, Verónica Briz, for the Multidisciplinary Group of viral coinfection HIV/Hepatitis (COVIHEP)
- 601 HCV ANTIBODY AVIDITY-BASED METHOD TO ESTIMATE POPULATION-LEVEL INCIDENCE**
Denali Boon, Veronica Bruce, **Eshan U. Patel**, Jeffrey Quinn, Aylur K. Srikrishnan, Shanmugam Saravanan, Syed Iqbal, Pachamuthu Balakrishnan, David L. Thomas, Thomas C. Quinn, Andrea Cox, Kimberly Page, Sunil S. Solomon, Shruti H. Mehta, Oliver Laeyendecker

Poster P-K4 HCV AND HIV: CANCER INFLAMMATION AND FIBROSIS

Poster Hall - 4EF

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- 602 HIGH KYNURENINE:TRYPTOPHAN RATIO IS ASSOCIATED WITH LIVER FIBROSIS IN HIV INFECTION**
Ani Kardashian, Yifei Ma, Michael T. Yin, Rebecca Scherzer, Olivia Nolan, Francesca Aweeka, Phyllis Tien, **Jennifer Price**
- 603 MORTALITY AFTER DIALYSIS INITIATION AMONG PATIENTS WITH CHRONIC HEPATITIS C INFECTION**
Carmine Rossi, Zahid A. Butt, Maryam Darvishian, Geoff W. McKee, Jane Buxton, Hasina Samji, Mawuena Binka, Stanley Wong, Amanda Yu, Maria Alvarez, Mel Krajden, Naveed Z. Janjua
- 604 SYNDEMIC HIV AND HEPATITIS VIRAL COINFECTIONS AND INCIDENT END-STAGE RENAL DISEASE**
Carmine Rossi, Zahid A. Butt, Maryam Darvishian, Jason Wong, Jane Buxton, Stanley Wong, Amanda Yu, Maria Alvarez, Mel Krajden, Naveed Z. Janjua
- 605 PREVALENCE OF HIV AND PATTERNS OF ART USE AMONG US LIVER-TRANSPLANT CANDIDATES**
Ashton A. Shaffer, Alvin G. Thomas, Dorry Segev
- 606 CHANGES IN LIVER STIFFNESS MEASUREMENT IN HIV AND HIV/HBV COINFECTED NIGERIANS**
Patricia A. Agaba, Adovich Rivera, Placid Ugoagwu, Mohammad Muazu, Jonathan Okpokwu, Samuel Akpa, Stephen McHenry, Godwin Imade, Oche Agbaji, Chloe Thio, Robert Murphy, Claudia Hawkins

- 607 IMPACT OF HBCAB+ ON ADVANCED LIVER FIBROSIS DEVELOPMENT IN HIV-HBV INFECTED PATIENTS**
Vincenzo Malagnino, Alessandro Cozzi-Lepri, Loredana Sarmati, Antonella Cingolani, Carlotta Cerva, Francesca Ceccherini Silberstein, Alessandra Vergori, Gianluca Cuomo, Carlo Federico Perno, Massimo Puoti, Massimo Andreoni, Antonella D'Arminio Monforte, for the ICONA Foundation Study Group
- 608 IMPACT OF HIV ON THE SURVIVAL OF HEPATOCELLULAR CARCINOMA IN HCV-INFECTED PATIENTS**
Nicolás Merchante, Miguel Rodríguez Fernández, Blanca Figueruela López, Francisco Rodríguez-Arrondo, Boris Revollo, Sofía Ibarra, Esperanza Merino, María J. Galindo, Marta Montero, Francisco Téllez, Antonio Rivero-Juárez, Miguel García-Deltoro, Ignacio Santos, Juan A. Pineda, for the Grupo para el Estudio de las Hepatitis Víricas (GEHEP)
- 609 LOW PERFORMANCE OF ULTRASOUND SURVEILLANCE FOR THE DIAGNOSIS OF LIVER CANCER IN HIV**
Miguel Rodríguez Fernández, Nicolás Merchante, María J. Rios-Villegas, Koldo Aguirrebengoa, María A. García-Gonzalo, Joseba Portu, Francisco Vera, Marina Villalobos, Carlos Mínguez, Miguel Angel Lopez Ruz, Mohamed Omar, Carlos Galera, Blanca Figueruela López, Juan A. Pineda, for the Grupo para el Estudio de las Hepatitis Víricas (GEHEP)
- 610 INTRAHEPATIC HIV IS ASSOCIATED WITH ADVERSE LIVER OUTCOMES IN HIV-HBV COINFECTION**
Jennifer M. Zerbato, Kasha P. Singh, Ajantha Solomon, Ashanti Dantanarayana, Surekha Tennakoon, Megan Crane, David Price, Sabine Braat, Hugh Mason, Peter Revill, Jennifer Audsley, Anchalee Avihingsanon, Sharon R. Lewin
- 611 COMPARTMENTALIZATION OF NS3 AND NS5A RAS IN HIV/HCV GT 1A OR 4D INFECTED PATIENTS**
 Riccardo Vercesi, Giulia Morsica, Hamid Hasson, Emanuela Messina, **Caterina Uberti-Foppa**, Sabrina Bagaglio
- 612 SECOND HITS PROMOTE HEPATOCYTE DEATH AND LIVER INJURY IN HIV INFECTION**
 Murali Ganesan, Raghubendra S. Dagur, Edward Makarov, Srivatsan Kidambi, Larisa Y. Poluektova, **Natalia Osna**
- 613 INFLAMMATORY CHEMOKINES LINKED TO HIV GENETIC DIVERSITY DURING HIV/HBV COINFECTION**
Xiao Qian Wang, Bethany A. Horsburgh, Katie Fisher, Jennifer M. Zerbato, Jennifer Audsley, Anchalee Avihingsanon, Ajantha Solomon, Julia Stout, Sharon R. Lewin, Sarah Palmer
- 614 INFLUENCE OF HCV INFECTION ON HIV-1 SPLICING IN CHRONICALLY COINFECTED PATIENTS**
Paula Martínez-Román, M^a Rosa López-Huertas, Claudia Palladino, Marta Sánchez-Carrillo, Luz Martín-Carbonero, Lourdes Domínguez-Domínguez, Pablo Ryan, Ignacio Santos, Sara de la Fuente Moral, José Alcamí Pertejo, Salvador Resino, Amanda Fernández-Rodríguez, Mayte Coiras, Verónica Briz, for the COVIHEP
- 615 PREVALENCE OF FATTY LIVER DISEASE IN INDIVIDUALS WITH AND WITHOUT HIV INFECTION**
Ditte M. Kirkegaard-Klitbo, Flemming Bendtsen, Stefan Stender, Klaus F. Kofoed, Børge Nordestgaard, Jens D. Lundgren, Susanne D. Nielsen, Thomas Benfield

616 LIVER INFLAMMATION IS COMMON AND LINKED TO METABOLIC DERANGEMENTS IN TREATED HIV

Kara W. Chew, Katherine Tassiopoulos, Frank J. Palella, Kunling Wu, Susanna Naggie, Netanya S. Utay, Edgar T. Overton, Mark Sulkowski

617 FENTANYL USE AND LIVER DISEASE IN THE MIAMI ADULT STUDIES ON HIV (MASH) COHORT

Marianna K. Baum, Kenneth E. Sherman, Qingyun Liu, Gustavo G. Zarini, Sabrina S. Martinez, Leslie Seminario, Jupshy Jasmin, Jacqueline Hernandez, Colby Teeman, Javier Tamargo, Nathalie Jaspar, Priscilla K. Clayton, Pedro J. Greer, Jag H. Khalsa, Adriana Campa

618 THE SYNTHETIC OPIOID FENTANYL ENHANCES VIRAL REPLICATION IN VITRO

Jason T. Blackard, Susan D. Rouster, Mohamed Tarek M. Shata, Kenneth E. Sherman, Ling Kong

Poster P-M3 BEYOND TRADITIONAL RISK FACTORS: MECHANISMS OF VASCULAR DISEASE IN HIV

Poster Hall - 4EF

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642 VIRAL PERSISTENCE IS INDEPENDENTLY PREDICTIVE OF ATHEROSCLEROSIS IN TREATED HIV

Megan McLaughlin, Yifei Ma, Rebecca Scherzer, Smruti Rahalkar, Teri Liegler, Jeffrey N. Martin, Claire Mills, Steven G. Deeks, Priscilla Hsue

643 VALGANCICLOVIR REDUCES STNF-R2 AND VASCULAR DYSFUNCTION MARKERS IN TREATED HIV

Gabriele Beck-Engeser, Frank Maldarelli, Vanessa A. York, Steven G. Deeks, Jeffrey N. Martin, Elizabeth Sinclair, Priscilla Hsue, Russell Tracy, Yong Huang, Peter W. Hunt

644 PLASMA TISSUE FACTOR AND MCP-1 PREDICTS CIMT PROGRESSION IN TREATED HIV

Denise C. Hsu, Yifei Ma, Danny Li, Meghann Williams, Adam Rupert, Rebecca Scherzer, Steven G. Deeks, Irini Sereti, Priscilla Hsue

645 SOCIOECONOMIC STATUS ASSOCIATES WITH ARTERIAL INFLAMMATION IN HIV

Lili Zhang, Amrit Narwan, Nicki Naddaf, Smruti Rahalkar, Tomas Patrich, Michael Osborne, Steven G. Deeks, Ahmed Tawakol, **Priscilla Hsue**

646 INFLAMMATORY PHENOTYPES PREDICT PULSE WAVE VELOCITY CHANGE ON ART IN MALAWIAN ADULTS

Christine Kelly, Willard Tinago, Alejandro A. Garcia, Patricia Hunter, Dagmar Alber, Natasha Luckhurst, Jake Connolly, Francesca I. Arrigoni, Raphael Kamng'ona, Patrick W. Mallon, Henry Mwandumba, Sarah Walker, Saye Khoo, Nigel Klein, for the REALITY study team

Poster P-M4 ALL THINGS LIPIDS

Poster Hall - 4EF

2:30 PM - 4:00 PM

647 TOCILIZUMAB ALTERS LIPIDS IN HIV+ INDIVIDUALS IN A RANDOMIZED, DOUBLE-BLIND STUDY

Emily Bowman, Morgan Cichon, Kenneth Riedl, Jane Baum, Michael L. Freeman, Michael M. Lederman, Benigno Rodriguez, Nicholas Funderburg

648 HDL CHOLESTEROL EFFLUX CAPACITY AND INCIDENT ASCVD IN HIV: IMPACT OF HAART

Roger Bedimo, Colby Ayers, Jason Gillman, Amneris Luque, Ayea El-Ghazali, Constance A. Benson, Edgar T. Overton, Pablo Tebas, Anand Rohatgi

- 649 EVIDENCE FOR PLEIOTROPIC EFFECTS OF LIPID-LOWERING DRUGS DURING SUPPRESSIVE HAART**
Henning J. Drechsler, Colby Ayers, James Cutrell, Pablo Tebas, Roger Bedimo, for the University of Texas Southwestern School of Medicine
- 650 PCSK9 AND HIV INFECTION: CORRELATION WITH DYSLIPIDEMIA, INFLAMMATION, AND HAART**
Elisabetta Schiaroli, Salvatore Cardaci, Vanessa Bianconi, Massimo R. Mannarino, Matteo Pirro, Daniela Francisci, Franco Baldelli
- 651 LIPID CHANGES ASSOCIATED WITH TAF ARE REVERSIBLE BY SWITCHING BACK TO TDF**
 Ana Milinkovic, Florian Berger, Alejandro Arenas-Pinto, **Stefan Mauss**
- 652 CHANGES IN LIPIDS AFTER A DIRECT SWITCH FROM TDF TO TAF**
Patrick W. Mallon, Laurence Brunet, Jennifer S. Fusco, Girish Prajapati, Andrew Beyer, Gregory Fusco, Michael Wohlfeiler

Poster P-M5 ENDOTHELIAL DYSFUNCTIONS: THE VIRUS, ART, AND OTHER FACTORS

Poster Hall - 4EF

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- 653 HIV-1 GP120 AND TAT-INDUCED MICROPARTICLES IMPAIR ENDOTHELIAL CELL FUNCTION**
Jamie Hijmans, Kelly Stockelman, Ma'ayan Levy, L, Madden Brewster, Tyler Bammert, Jared Greiner, Elizabeth Connick, Christopher DeSouza
- 654 HIV-1, CIRCULATING MICROPARTICLES, AND ENDOTHELIAL CELL DYSFUNCTION**
Jamie Hijmans, Kelly Stockelman, Ma'ayan Levy, L, Madden Brewster, Tyler Bammert, Jared Greiner, Brian Stauffer, Elizabeth Connick, Christopher DeSouza
- 655 ENDOTHELIAL DYSFUNCTION IS COMMON IN EARLY HIV INFECTION AND IS REVERSIBLE WITH ART**
 Kelvin Bush, Julie Teel, James Watts, Gadiel Alvarado, Rosco Gore, **Jason Okulicz**
- 656 ADVANCED GLYCATION END PRODUCTS, INFLAMMATION, AND ENDOTHELIAL DYSFUNCTION IN HIV**
Vanessa El Kamari, Alicia Thomas, Abdus Sattar, Grace A. McComsey
- 657 CUMULATIVE ART EXPOSURE IS ASSOCIATED WITH ENDOTHELIAL AND IMMUNE ACTIVATION IN HIV**
Jose R. Castillo-Mancilla, Samantha MaWhinney, Ryan P. Coyle, James Morrison, Eric Poeschla, Rick Rapaport, Thomas Campbell, Lucas Ellison, Jia-Hua Zheng, Lane R. Bushman, Jennifer J. Kiser, Peter L. Anderson, Jonathan Z. Li

Poster P-N1 WEIGHT GAIN DURING ART

Poster Hall - 4EF

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- 669 RISK FACTORS FOR EXCESS WEIGHT GAIN FOLLOWING SWITCH TO INTEGRASE INHIBITOR-BASED ART**
Jordan E. Lake, Kunling Wu, Kristine M. Erlandson, Sara H. Bares, Paula Debroy, Catherine Godfrey, John R. Koethe, Grace A. McComsey, Frank J. Palella, Katherine Tassiopoulos

- 670 GREATER WEIGHT GAIN AMONG TREATMENT-NAIVE PERSONS STARTING INTEGRASE INHIBITORS**
Kassem Bourgi, Cathy Jenkins, Peter F. Rebeiro, Jordan E. Lake, Richard D. Moore, W. C. Mathews, Michael A. Horberg, Amanda Willig, Michelle Floris-Moore, Michael John Gill, Angel M. Mayor, Ronald Bosch, Timothy R. Sterling, John R. Koethe, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) for IeDEA,
- 671 WEIGHT GAIN DURING TREATMENT AMONG 3,468 TREATMENT-EXPERIENCED ADULTS WITH HIV**
Grace A. McComsey, Joseph J. Eron, Steven Santiago, Karam Mounzer, Graeme Moyle, Thanos Vanig, Paul E. Sax, Keri N. Althoff, Scott Milligan, Michael Marks, Richard Haubrich, Richard A. Elion
- 672 INTEGRASE STRAND TRANSFER INHIBITORS ARE ASSOCIATED WITH WEIGHT GAIN IN WOMEN**
Anne M. Kerchberger, Anandi N. Sheth, Christine D. Angert, Cyra Christina Mehta, Nathan A. Summers, Igbo Ofotokun, Deborah Gustafson, Sheri Weiser, Seble Kassaye, Deborah Konkle-Parker, Anjali Sharma, Adaora Adimora, Hector Bolivar, Cecile D. Lahiri
- 673 THE IMPACT OF WEIGHT GAIN AND SEX ON IMMUNE ACTIVATION FOLLOWING INITIATION OF ART**
Sara H. Bares, Laura M. Smeaton, Vincent Vu, Beth A. Zavoda-Smith, Sarah E. Scott, Catherine Godfrey, Grace A. McComsey
- 674 WEIGHT GAIN AMONG VIRALLY SUPPRESSED PERSONS WHO SWITCH TO InSTI-BASED ART**
Frank J. Palella, Nabil Rayeed, Jun Li, Douglas Ward, Jack Fuhrer, Stacey Purinton, Ellen Tedaldi, Richard Novak, Kate Buchacz
- 675 DIFFERENTIAL BMI CHANGES FOLLOWING PI- AND InSTI-BASED ART INITIATION BY SEX AND RACE**
Roger Bedimo, Xilong Li, Beverley Adams-Huet, Jordan E. Lake, Barbara S. Taylor, Deborah Kim, Pablo Tebas, Amneris Luque
- 676 LONG-LASTING ALTERATIONS IN FAT DISTRIBUTION IN PLWH EXPOSED TO THYMIDINE ANALOGUES**
Marco Gelpi, Shoaib Afzal, Andreas Fuchs, Jens D. Lundgren, Andreas D. Knudsen, Ninna Drivsholm, Anne-Mette Lebech, Birgitte Lindegaard, Jørgen T. Kuhl, Per E. Sigvardsen, Lars Køber, Børge Nordestgaard, Klaus F. Kofoed, Susanne D. Nielsen
- 677 HIGH PREVALENCE OF CENTRAL OBESITY IN HIV-INFECTED & HIV-UNINFECTED ADULTS, BOTSWANA**
Mosepele Mosepele, Pinkie Melamu, Kara Bennett, Tendani Gaolathe, Joseph Makhema, Mompati O. Mmalane, Molly Pretorius Holme, Refeletswe Lebelonyane, Kathleen M. Powis, Jean Leidner, Joseph N. Jarvis, Neo Tapela, Lucky Mokgathe, Kathleen Wirth, Shahin Lockman
- 678 SLEEVE GASTRECTOMY VS ROUX-EN-Y BYPASS ON WEIGHT AND METABOLIC COMPLICATIONS IN HIV**
Vanessa El Kamari, Julia C. Kosco, Corri Lynn O. Hileman, Grace A. McComsey

Poster P-N2 INTEGRASE INHIBITORS: CARDIOMETABOLIC OUTCOMES
Poster Hall - 4EF **2:30 PM - 4:00 PM**

- 679 DOLUTEGRAVIR AND INSULIN RESISTANCE**
 Janet Lo, James Oyee, Melissa Crawford, Richard Grove, Ralph DeMasi, Lloyd Curtis, Anna Fettiplace, Vani Vannappagari, Nassrin Payvandi, Michael Aboud, **Jean van Wyk**

680 LOWER CARDIOVASCULAR DISEASE RISK ASSOCIATED WITH INTEGRASE INHIBITORS

Jane A. O'Halloran, John Sahrman, Anne M. Butler, Margaret A. Olsen, William Powderly

Poster P-01 CRYPTOCOCCAL MENINGITIS SCREENING, PREEMPTIVE THERAPY, AND OUTCOMES

Poster Hall - 4EF

2:30 PM - 4:00 PM

705 SCREENING AND PREEMPTIVE ANTIFUNGAL THERAPY FOR SUBCLINICAL CRYPTOCOCCAL DISEASE

Admire Hlupeni, Rhoderick Machekano, Kathryn F. Boyd, Takudzwa Chagumaira, Primrose Nyamayaro, **Chiratidzo E. Ndhlovu**, Azure T. Makadzange

706 SCREENING FOR TALAROMYCES AND CRYPTOCOCCAL ANTIGENEMIA IN AIDS PATIENTS IN GUANGDONG

Linghua Li, Liya Li, Yaozu He, Haodi Wang, Kaiyin He, Xiaoping Tang, Thuy Le, Weiping Cai

707 THE COST-EFFECTIVENESS OF AMBISOME FOR ASYMPTOMATIC CRYPTOCOCCAL INFECTION

Radha Rajasingham, David Meya, Elizabeth Nalintya, Bruce Larson, David R. Boulware

708 CRYPTOCOCCAL ANTIGENEMIA IN HIV PATIENTS WITH VIROLOGIC FAILURE IN UGANDA

Edward Mpoza, David Meya, Maria S. Nabaggala, Lillian Tugume, Kenneth Ssebambulidde, Joshua Rhein, David R. Boulware, Radha Rajasingham

709 CYTOMEGALOVIRUS VIREMIA ASSOCIATED WITH MORTALITY IN CRYPTOCOCCAL MENINGITIS

Caleb P. Skipper, Mark R. Schleiss, Jason C. Zabeli, Nelmary Hernandez-Alvarado, Sarah Lofgren, Henry Nabeta, Kabanda Taseera, Abdu Musubire, Charlotte Schutz, Ananta Bangdiwala, Katherine Huppler Hullsiek, Conrad Muzoora, David Meya, Graeme Meintjes, David R. Boulware, for the COAT Trial Team

Poster P-02 WHAT'S APP WITH OTHER OIs?

Poster Hall - 4EF

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710 ASYMPTOMATIC TALAROMYCES MARNEFFEI ANTIGENEMIA AND MORTALITY IN ADVANCED HIV DISEASE

Nguyen T. Thu, Vu Quoc Dat, Jasper F. Chan, Hien T. Ha, Dung T. Nguyen, Anh T. Ho, Patrick C. Woo, Kwok-Yung Yuen, Sheryl Lyss, Moses Bateganya, Kinh V. Nguyen, Thuy Le

711 PREDICTIVE MODELING OF MORTALITY IN INVASIVE TALAROMYCOSIS IN HIV PATIENTS

Shengxin Tu, Cliburn Chan, Thuy Le

712 WITHHOLDING PCP PROPHYLAXIS IN VIRALLY SUPPRESSED HIV PATIENTS FROM COHERE

Andrew Atkinson, for the Opportunistic Infections Project Team of COHERE

713 PNEUMOCOCCAL VACCINATION IN HIV+ ADULT PATIENTS ON SUPPRESSIVE ART, 2010-2017

María J. Vivancos-Gallego, Alfonso Muriel, Ana Moreno, Maria Jesus Perez-Elias, Jose L. Casado, Carmen Quereda, Matilde Sanchez-Conde, Santos Del Campo, Fernando Drona, Sergio Serrano-Villar, Ana Sanchez, Jose Valencia, Santiago Moreno, for the Instituto Ramon y Cajal de Investigacion Sanitaria

Poster P-03 NOVEL DIAGNOSTICS FOR LATENT AND ACTIVE TB

Poster Hall - 4EF

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714 DIGITAL CHEST RADIOGRAPHY OPTIMISES TB SCREENING OF SOUTH AFRICAN CLINIC ATTENDEES

Nishila Moodley, **Amashnee Saimen**, Noor Zakhura, David Motau, Candice Chetty-Makan, Kavindhran Velen, Gavin Churchyard, Salome Charalambous

715 DIAGNOSIS OF LATENT TUBERCULOSIS AMONG US-BORN PEOPLE LIVING WITH HIV

April Pettit, Jason Stout, Robert Belknap, Constance A. Benson, Marie Nancy Seraphin, Michael Lauzardo, David Horne, Richard S. Garfein, Fernanda Maruri, Dolly Katz, Christine Ho, for the Tuberculosis Epidemiologic Studies Consortium (TBESC)

716 QUANTIFICATION OF CD64: A PREDICTIVE BIOMARKER FOR PROGRESSION TO ACTIVE TUBERCULOSIS

Cristina Ceriani, Arianna Gatti, Massimo Villa, Maria Teresa Manco, Massimo De Paschale, Ilaria Caramma, Bruno Brando, Pierangelo Clerici

717 ORAL SWAB ANALYSIS (TB-OSA) FOR NON-SPUTUM-BASED TB DIAGNOSIS IN KENYA

Sylvia LaCourse, Rachel Wood, Evans Seko, Gregory S. Ouma, Barbra A. Richardson, Grace John-Stewart, Gerard Cangelosi

718 QUANTIFICATION OF CIRCULATING ANTIGENS ENABLES A RAPID BLOOD TB TEST

Tony Hu

719 LB BD MAX™ MDR-TB ASSAY FOR DETECTION OF TUBERCULOSIS AND DRUG RESISTANCE

Maunank Shah, Josh Betz, Sonia Paradis, Natalie Beylis, Mark Nicol, Lydia Nakiyingi, Moses L. Joloba, Renu Bharadwaj, Neeta N. Pradhan, Vidya Mave, Tatiana Caceres, Eduardo Gotuzzo, Charles Cooper, Susan E. Dorman, Yukari C. Manabe

Poster P-04 TB SCREENING AND PREVENTIVE THERAPY

Poster Hall - 4EF

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720 THE EFFECTIVENESS OF VARIOUS SYMPTOM-BASED ALGORITHMS FOR TB SCREENING AT HIV TESTING

Vanessa Rivera, Marc Antoine Jean Juste, Jeanwilkins Sainristil, Dani Archange, Samantha Gluck, Harrison Reeder, Oksana Ocheretina, Tahera Doctor, Eleanore Fuqua, Sarah Centanni, Pierre Cremieux, Daniel Fitzgerald, Serena Koenig, Jean William Pape

721 OPTIMIZING DIAGNOSTIC ALGORITHMS FOR ACTIVE PULMONARY TUBERCULOSIS IN HIV CLINICS

Haylea A. Hannah, Bradley G. Wagner, Stewart T. Chang, Paul K. Drain

- 722 RURAL AND URBAN DIFFERENCES IN THE IMPACT OF THE XPERT MTB/RIF TEST ON TB CARE**
Simon Walusimbi, Stella Zawedde-Muyanja, Julius Sendiwala, Abudnoor Nyombi, Stavia Turyahabwe, Andrew Kambugu, Barbara Castelnuovo, Yukari C. Manabe
- 723 TB PREVENTIVE THERAPY UPTAKE IS HIGH WITH COMMUNITY ART DELIVERY IN SOUTH AFRICA**
Adrienne E. Shapiro, Alastair van Heerden, Heidi van Rooyen, Torin T. Schaafsma, Olivier Koole, Deenan Pillay, Jared Baeten, Connie L. Celum, Ruanne V. Barnabas, for the DO ART Study Team
- 724 EVALUATION OF PULMONARY TUBERCULOSIS FOLLOWING IPT IN KENYAN ADULTS LIVING WITH HIV**
Jill K. Gersh, Daniel Matemo, John Kinuthia, Zachary Feldman, Sylvia LaCourse, Alex J. Warr, Ruanne V. Barnabas, Maureen Kamene, David Horne

Poster P-05 THE INTERSECTION OF HIV AND TB

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 725 THE IMPACT OF HIV-COINFECTION ON THE EVOLUTION OF MYCOBACTERIUM TUBERCULOSIS**
 Chloé Loiseau, Marie Ballif, Daniela Brites, **Lukas Fenner**, Miriam Reinhard, Alash'le Abimiku, Marcel Yotebieng, Helen Cox, E. Jane Carter, Joachim Gnokoro, Jimena Collantes, Anchalee Avihingsanon, Nicola M. Zetola, Matthias Egger, Sebastien Gagneux
- 726 MYCOBACTERIUM TUBERCULOSIS COINFECTION INCREASES HIV RESERVOIR SIZE**
 Jingna Xun, Hongzhou Lu, **Jun Chen**, Tangkai Qi, Yongjia Ji, Renfang Zhang, Li Liu, Yinzhong Shen, Wei Song, Yang Tang, Qi Tang, Zhenyan Wang
- 727 FUNDAMENTAL SHIFTS IN HIV POPULATION STRUCTURE AFTER TB-IRIS**
Camille Lange, Maura Manion, Rob Gorelick, Natalie Lindo, Christian Gonsalves, James Virga, Virginia Sheikh, Gregg Roby, Joseph Adelsberger, Frank Maldarelli, Irini Sereti
- 728 TB-SPECIFIC CD4+ T CELLS ARE ASSOCIATED WITH PULMONARY INFLAMMATION ON ART IN HIV/TB**
Pholo W. Maenetje, Shruthi Ravimohan, Itai T. Ncube, Sara C. Auld, Nelly Ratsela, Mandla Mlotshwa, Modulakgotla Sebe, Jonathan Smith, Mboyo-Di-Tamba Vangu, Hardy Kornfeld, Drew Weissman, Gavin Churchyard, Gregory Bisson
- 729 HIV TEST YIELD AND REASONS FOR UNKNOWN HIV STATUS AMONG TB PATIENTS: THE KOPANYO STUDY**
Xiao Jun Wen, Othusitse Fane, Matsiri Ogopotse, Mbatshi Dima, Eleanor Click, Patrick Moonan, John Oeltmann, Rosanna Boyd, Chawangwa Modongo, Christopher Serumola, James Tobias, Alyssa Finlay, Nicola M. Zetola
- 730 TIMING AND INCIDENCE OF HIV-ASSOCIATED TUBERCULOSIS: A 4-COUNTRY STUDY**
Enrico Girardi, Yanink Caro-Vega, Josph Musaazi, Gabriela Carriquiry, Alessandro Cozzi-Lepri, Barbara Castelnuovo, Andrea Gori, Yukari C. Manabe, Eduardo Gotuzzo, Antonella D'Arminio Monforte, Brenda Crabtree-Ramírez, Cristina Mussini, for the ICoNA, IMT AvH, INNSZ and IDI Cohorts

- 731 HIGH INCIDENCE OF TUBERCULOSIS AMONG HIV+ PATIENTS TREATED WITH HAART IN ZAMBIA**
Simon Mutembo, Jane N. Mutanga, Vincent C. Marconi, Christopher Whalen
- 732 COMMUNITY ART REFILL GROUPS AND TUBERCULOSIS RATES IN ZIMBABWE**
Aaron Bochner, Claudios Muserere, Blessing Wazara, Batsirai Makunike, Gloria Gonese, Elizabeth Meacham, Frances Petracca, Ponesai Nyika, Shirish Balachandra, Ruth Levine, Ann Downer, Stefan Z. Wiktor
- 733 INCIDENCE OF TUBERCULOSIS IN THE BOTSWANA NATIONAL ARV PROGRAMME**
Lucy Mupfumi, Sikhulile Moyo, Qiao G. Michan, Sanghyuk S. Shin, Judith Nawa, Botshelo T. Kgwaadira, Tony Chebani, Thato Iketleng, Tuelo Mogashoa, Rosemary Musonda, Ishmael Kasvosve, Nicola M. Zetola, Simani Gaseitsiwe
- 734 HIGH RATES OF TB IN THE FIRST 6 MONTHS OF DOLUTEGRAVIR-BASED ART IN BOTSWANA**
Lucy Mupfumi, Sikhulile Moyo, Ava Avalos, Lesedi Bewlay, Kaelo Seatla, Sanghyuk S. Shin, Ishmael Kasvosve, Nicola M. Zetola, Simani Gaseitsiwe, for the BEAT Cohort Study Team
- 735 KIDNEY DISEASE IN AFRICANS WITH HIV AND TUBERCULOSIS**
 Nicola Wearne, Rachel Hung, Raphaela Bohmer, Ruan Spies, Aadil Omar, Samantha Ash, Fowzia Ibrahim, Robert Miller, John Booth, Sebastian Lucas, **Frank Post**
- 736 MORTALITY AFTER PRESUMED TB TREATMENT COMPLETION IN PERSONS WITH HIV IN LATIN AMERICA**
Serena Koenig, Ahra Kim, Bryan E. Shepherd, Carina Cesar, Valdilea Veloso, Claudia P. Cortes, Denis Padgett, Brenda Crabtree-Ramirez, Eduardo Gotuzzo, Catherine McGowan, Timothy R. Sterling, Jean William Pape, for the The Caribbean, Central and South America Network for HIV Epidemiology (CCASAnet)
- 737 LB WITHDRAWN/INTENTIONALLY UNASSIGNED**

Poster P-06 DRUG-RESISTANT TB
Poster Hall - 4EF

2:30 PM - 4:00 PM

- 738 RIFAMPIN-RESISTANT TUBERCULOSIS IN THE UNITED STATES, 1998–2014**
 Lisa Sharling, **Suzanne Marks**, Terence Chorba, Sundari Mase
- 739 GLOBAL DISPARITIES IN PRICES OF KEY MEDICINES FOR MULTIDRUG-RESISTANT TUBERCULOSIS**
Andrew Hill, Dzintars Gotham
- 740 DEVELOPMENT AND VALIDATION OF A PREDICTIVE MODEL FOR AMINOGLYCOSIDE OTOTOXICITY**
Hyejeong Hong, David Dowdy, Kelly E. Dooley, Chakra Budhathoki, Hae-Ra Han, Jason Farley
- 741 RIFAMPICIN RESISTANCE ACCURATELY IDENTIFIED BY CLUSTERING ULTRA MELTING TEMPERATURES**
Gabriel D. Eisenberg, Lesley Scott, Puleng S. Marokane, Pedro da Silva, Kyle Fyvie, Wendy Stevens
- 742 THE COST AND IMPACT OF MDR-TB TREATMENT GUIDELINE CHANGES IN SOUTH AFRICA**
Sithabiso D. Masuku, Ribka Berhanu, Craig Van Rensburg, Nobert Ndjeka, Sydney Rosen, Lawrence Long, Denise Evans, Brooke E. Nichols

Poster P-P5 DRILLING DOWN ON VERTICAL TRANSMISSION**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 768 TOWARDS EMTCT IN ZIMBABWE: SERVICE UPTAKE AND IMPACT OF OPTION B+ ON MTCT, 2012-2018**
Mi-Suk Kang Dufour, Sandra I. McCoy, Aybuke Koyuncu, Angela Mushavi, Agnes Mahomva, Nancy Padian, Frances Cowan
- 769 HIV DRUG RESISTANCE AT PERINATAL TRANSMISSION AND ACCUMULATION DURING BREASTFEEDING**
Ceejay Boyce, Ingrid A. Beck, Tatiana Sils, Daisy Ko, Annie Wong-On-Wing, Sheila Styrchak, Patricia DeMarrais, Camlin Tierney, Lynda Stranix-Chibanda, Taha E. Taha, Maxensia Owor, Mary G. Fowler, Lisa Frenkel, for the Promoting Maternal and Infant Survival Everywhere trial (PROMISE) Study Team
- 770 GP41 ECTODOMAIN-SPECIFIC IGG IS ASSOCIATED WITH INCREASED VERTICAL HIV-1 TRANSMISSION**
Nicole Naiman, Jennifer Slyker, Ruth Nduati, Julie M. Overbaugh
- 771 EPITOPE TARGETS OF ADCC-MEDIATING ANTIBODIES AND THEIR RELATION TO MTCT OF HIV-1**
Nicole Naiman, Jennifer Slyker, Barbra A. Richardson, Ruth Nduati, Julie M. Overbaugh
- 772 ABUNDANT EXPRESSION OF CCR5 ON EARLY HOFBAUER CELLS MAY INCREASE HIV-1 SUSCEPTIBILITY**
Dominika Swieboda, Erica L. Johnson, Ioanna Skountzou, Rana Chakraborty

Poster P-P6 PREVENTING HIV ACQUISITION IN PREGNANCY AND BREASTFEEDING**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 773 INCIDENT HIV INFECTION AMONG PREGNANT WOMEN IN BOTSWANA**
Gloria K. Mayondi, Modiegi D. Diseko, Judith Mabuta, Sonya Davey, Arielle Isaacson, Sikhulile Moyo, Chelsea Morroni, Mompoti O. Mmalane, Joseph Makhema, Tumalano Sekoto, Goabaone Mogomotsi, Shahin Lockman, Roger L. Shapiro, Rebecca Zash
- 774 HETEROGENEITY OF HIV RETESTING DURING PREGNANCY AND POSTPARTUM IN KENYA**
Monalisa Penumetsa, Shiza Farid, Daniel Matemo, Barbra A. Richardson, Grace John-Stewart, John Kinuthia, **Alison L. Drake**
- 775 PRIMARY HIV PREVENTION IN PREGNANT AND LACTATING UGANDAN WOMEN: A RANDOMIZED TRIAL**
Jaco Homsy, Rachel King, Femke Bannink, Zikulah Namukwaya, Eric Vittinghoff, Alexander Amone, Francis Ojok, Gordon Rukundo, Sharon Amama, Lawrence Ojom, Pamela Atim, Josaphat Byamugisha, George Rutherford, Elly T. Katabira, Mary G. Fowler
- 776 MODELING THE IMPACT OF PrEP FOR PREGNANT AND BREASTFEEDING WOMEN IN SOUTH AFRICA**
Dvora Joseph Davey, Linda-Gail Bekker, Yolanda Gomba, Landon Myer, Thomas J. Coates, Leigh F. Johnson
- 777 PREFERENCES FOR HOME VS CLINIC AND BLOOD VS SALIVA HIV RETESTING IN PREGNANCY**
Anjuli D. Wagner, Jill Neary, David A. Katz, Grace John-Stewart, Daniel Matemo, John Kinuthia, Alison L. Drake

778 CHALLENGES OF POTENTIALLY FALSE-POSITIVE HIV TESTS IN PREGNANT WOMEN IN THE PrEP ERA

Anjuli D. Wagner, John Kinuthia, Julia C. Dettinger, Nancy M. Ngumbau, Laurén Gómez, Salphine A. Wattoyi, Alison L. Drake, Felix Abuna, Jillian Pintye, Ben O. Odhiambo, Grace John-Stewart, Jared Baeten

Poster P-P7 HIV TESTING OF INFANTS AND CHILDREN**Poster Hall - 4EF****2:30 PM - 4:00 PM****779 PILOTING POINT-OF-CARE HIV TESTING AT BIRTH AND 6 WKS POSTNATAL IN 4 KENYAN HOSPITALS**

Catherine Wexler, Melinda Brown, Matthew Sandbulte, May Maloba, Brad Gautney, Kathy Goggin, Thomas A. Odeny, Shadrack Babu, Elizabeth Muchoki, Maosa Nick, **Sarah Finocchiaro Kessler**

780 ROUTINE POINT-OF-CARE HIV TESTING AT BIRTH: RESULTS FROM A 1-YEAR PILOT IN ESWATINI

Emma Sacks, Caspian Chouraya, Bonisile Nhlabatsi, Philisiwe Khumalo, Thembe Masuku, Tandzile Zikalala, Gcinile Nyoni, Nobuhle Mthetwa, Flavia Bianchi, Jennifer Cohn

781 EARLY INFANT DIAGNOSIS OF HIV USING DNA PCR CT VALUE AND REPEAT TESTING ALGORITHM

Gbolahan Ajibola, Sikhulile Moyo, Terence Mohammed, Seretlogelwa Moseki, Jack Disaro, Maureen Sakoi-Mosetlhi, Oganne Batlang, Kenneth Maswabi, Kara Bennett, Michael D. Hughes, Shahin Lockman, Joseph Makhema, Mathias Lichterfeld, Daniel R. Kuritzkes, Roger L. Shapiro

782 DIAGNOSTIC ACCURACY OF HIV ORAL RAPID TESTS VS BLOOD-BASED RAPID TESTS AMONG CHILDREN

Chido Dziva Chikwari, Irene Njuguna, Crissi Rainer, Belinda V. Chihota, Jill Neary, Jennifer Slyker, David A. Katz, Dalton Wamalwa, Laura Oyiengo, Grace McHugh, Ethel Dauya, Grace John-Stewart, Rashida Ferrand, Anjuli D. Wagner

783 FINDING THE MISSING CHILDREN WITH HIV: INDEX-LINKED TESTING IN CLINICS & COMMUNITIES

Chido Dziva Chikwari, Tsitsi Bandason, Victoria Simms, Stefanie Dringus, Ethel Dauya, Grace McHugh, Edwin Sibanda, Rudo Chikodzore, Miriam N. Mutseta, Getrude Ncube, Sara Page-Mtongwiza, Elizabeth L. Corbett, Helen A. Weiss, Rashida Ferrand

Poster P-Q1 BRAINS, BONE, AND GENOMES IN HIV-EXPOSED CHILDREN**Poster Hall - 4EF****2:30 PM - 4:00 PM****784 EARLY CHILD DEVELOPMENT OF HIV-EXPOSED UNINFECTED CHILDREN IN RURAL ZIMBABWE**

Jaya Chandna, Ceri Evans, Bernard Chasekwa, Gwendoline Kandawasvika, Naume Tavengwa, Batsirai Mutasa, Florence D. Majo, Kuda Mutasa, Lawrence Moulton, Robert Ntozini, Andrew Prendergast, Jean Humphrey, Melissa Gladstone, for the SHINE Trial Team

785 NEURODEVELOPMENT IN INFANTS OF WOMEN WITH PERINATALLY VS NONPERINATALLY ACQUIRED HIV

Jennifer Jao, Deborah Kacanek, Wendy Yu, Paige L. Williams, Kunjal Patel, Sandra Burchett, Gwen Scott, Elaine J. Abrams, Rhoda Sperling, Russell B. Van Dyke, Renee Smith, Kathleen Malee, for the Pediatric HIV/AIDS Cohort Study

786 NEURODEVELOPMENTAL OUTCOMES FOLLOWING IN UTERO EFAVIRENZ EXPOSURE AMONG HEU CHILDREN

Adam R. Cassidy, Paige L. Williams, Jean Leidner, Gloria K. Mayondi, Gbolahan Ajibola, Judith Mabuta, Joseph Makhema, Kathleen M. Powis, Roger L. Shapiro, Betsy Kammerer, **Shahin Lockman**

787 HIV-EXPOSED UNINFECTED INFANT GUT MICROBIOME EVOLUTION IN THE FIRST YEAR OF LIFE

Kathleen M. Powis, Jeremy E. Wilkinson, Galeb Abu-Ali, Samuel W. Kgole, Gosego Masasa, David B. Gootenberg, Deborah Kacaneck, Francis Banda, Sikhulile Moyo, Mompoti O. Mmalane, Joseph Makhema, Roger L. Shapiro, Douglas Kwon, Curtis Huttenhower

788 DIFFERENCES IN GUT MICROBIOME IN HIV-INFECTED VERSUS HIV-EXPOSED, UNINFECTED INFANTS

Wei Li A. Koay, Hyunwook Koh, Mutsa Bwakura-Dangarembizi, Myron Levin, Adriana Weinberg, Ni Zhao, Deborah Persaud

789 COMPLETE MITOCHONDRIAL GENOME IN HIV-INFECTED CHILDREN AND MOTHER-CHILD PAIRS

Claudia Fortuny, Constanza Moren, Lidia Carreño, Elena Garcia-Arumí, Emilia Sanchez, Glòria Garrabou, Ingrid Gonzalez-Casacuberta, Ester Tobías, Antoni Noguera-Julian

Poster P-Q3 EARLY INFANT TREATMENT

Poster Hall - 4EF

2:30 PM - 4:00 PM

796 DETECTION HIV DNA BY DDPCR BEFORE VIREMIA IN INTRAPARTUM & AT BIRTH IN IU INFANTS

Yvonne Bryson, Ruth Cortado, Dimitrios Vatakis, Irene J. Kim, Jerome Zack, Ting-Ting Wu, Karin Nielsen-Saines, Deborah Persaud, for the HPTN/ NICHDO40

797 MATERNAL HIV RNA AFTER DELIVERY IS CORRELATED WITH INFANT PRETREATMENT HIV RNA

Maureen Sakoi-Mosetlhi, Gbolahan Ajibola, Kara Bennett, Sikhulile Moyo, Kenneth Maswabi, Oganne Batlang, Joseph Makhema, Kathleen M. Powis, Shahin Lockman, Daniel R. Kuritzkes, Michael D. Hughes, Roger L. Shapiro, Mathias Lichterfeld

798 EARLY ART START IN CHILDREN IS ASSOCIATED WITH MORE RAPID DECAY OF HIV-1 DNA

Kirsten A. Veldsman, Anita Janse van Rensburg, Shahieda Isaacs, Shalena Naidoo, Barbara Laughton, Carl Lombard, Mark Cotton, John W. Mellors, **Gert U. van Zyl**

799 LB VIROLOGIC RESPONSE TO VERY EARLY ART IN NEONATES WITH IN UTERO HIV: IMPAACT P1115

Deborah Persaud, Ellen G. Chadwick, Camlin Tierney, Bryan Nelson, Mark Cotton, Anne Coletti, Theodore Ruel, Mutsa Bwakura-Dangarembizi, Macpherson Mallewa, Kimesh L. Naidoo, Christina Reding, Rohan Hazra, Patrick Jean-Philippe, Yvonne Bryson, for the IMPAACT P1115 Study Team

800 SHIV CH505 T/F RESERVOIR AND REBOUND IN INFANT AND ADULT RHESUS MACAQUES

Ria Goswami, Ashley N. Nelson, Joshua J. Tu, Maria Dennis, Riley J. Mangan, Cameron Mattingly, Amit Kumar, Maud Mavigner, Ann Chahroudi, George Shaw, Katharine J. Bar, Kristina De Paris, Koen Van Rompay, Sallie Permar

- 801 HIV-SPECIFIC ANTIBODY LEVELS CORRELATE WITH TFH MATURATION IN EARLY TREATED INFANTS**
Julie Mitchell, Thanyawee Puthanakit, Kenneth Dietze, Marta Massanella, Pope Kosalaraksa, Thitiporn Borkird, Suparat Kanjanavanit, Piyarat Suntarattiwong, Thidarat Jupimai, Panadda Sawangsinth, Mark de Souza, Nicolas Chomont, Jintanat Ananworanich, Lydie Trautmann, for the HIVNAT209 Study group
- 802 OUTCOMES OF NEONATES WITH RAPID HIV TREATMENT IN US: TREATING INFANTS EARLY STUDY**
Theodore Ruel, Rohan Hazra, Patrick Jean-Philippe, Delia Rivera-Hernández, Andres Camacho-Gonzalez, Ann Chahroudi, Rana Chakraborty, Estafania Guerreros, Kristin Hoeft
- 803 HIV PERSISTS IN DIFFERENTIATED MEMORY CD4 T CELLS IN ART-SUPPRESSED CHILDREN**
Marta Massanella, Jintanat Ananworanich, Louise Leyre, Thidarat Jupimai, Julie Mitchell, Panadda Sawangsinth, Mark de Souza, Piyarat Suntarattiwong, Kulkanya Chokephaibulkit, Lydie Trautmann, Thanyawee Puthanakit, Nicolas Chomont, for the HIVNAT209 and HIVNAT194 study groups
- 804 IMMUNO-VIROLOGICAL IMPACT OF EARLY VS LATE ART INITIATION IN CHILDREN AND ADOLESCENTS**
Pierre Frange, Veronique Avettand-Fenoel, Jérôme Le Chenadec, Catherine Dollfus, Thomas Montange, Stephane Blanche, Albert Faye, Martine Levine, Valérie Marcou, Damien Batalie, Marine Fillion, Laura Nailler, Josiane Warszawski, Florence Buseyne, for the ANRS-EP59-CLEAC Study Group
- 805 LONG-TERM PERSISTENCE OF HIV-INFECTED CELL CLONES IN CHILDREN TREATED EARLY**
Michael J. Bale, Mary Grace K. Katusiime, David Wells, Xiaolin Wu, Jonathan Spindler, Elias K. Halvas, Joshua C. Cyktor, Ann Wiegand, Wei Shao, John M. Coffin, Mark Cotton, Stephen H. Hughes, John W. Mellors, Gert U. van Zyl, Mary F. Kearney
- 806 INTACT HIV PROVIRUSES ARE DETECTABLE 7-9 YEARS LATER WHEN ART STARTS AFTER 3 MONTHS**
Mary Grace K. Katusiime, Michael J. Bale, Imogen Wright, Wei Shao, Wei-Shau Hu, Mark Cotton, John W. Mellors, Mary F. Kearney, Gert U. van Zyl

Poster P-R3 PHYLOGENETICS, MAPPING, AND OUTBREAKS

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 856 INCIDENT INFECTION IN HIGH-PRIORITY HIV MOLECULAR TRANSMISSION CLUSTERS**
Joel O. Wertheim, Nivedha Panneer, Anne Marie France, Neeraja Saduvala, Alexandra M. Oster
- 857 MOLECULAR SURVEILLANCE AS A MEANS TO EXPAND AN OUTBREAK INVESTIGATION: MA, 2015-2018**
Betsey John, Nivedha Panneer, Matthew Tumpney, Paul McClung, Erica Dawson, Kate Buchacz, Kathleen Roosevelt, Philip J. Peters, Tracy Stiles, Ellsworth M. Campbell, William M. Switzer, Alfred DeMaria, Kevin Cranston, Sheryl Lyss, for the Massachusetts Epi-Aid Investigation Team
- 858 WITHDRAWN/INTENTIONALLY UNASSIGNED**
- 859 WITHDRAWN/INTENTIONALLY UNASSIGNED**

- 860 USING NEAR REAL-TIME MOLECULAR SURVEILLANCE TO INFORM DATA-TO-CARE IN NEW YORK CITY**
Lucia V. Torian, Chi-Chi N. Udeagu, Lisa A. Forgione, Qiang Xia, Joel O. Wertheim, **Kavita Misra**, Jamie Huang, Jennifer Rakeman-Cagno, Susan Blank, Michael A. Castro, Sarah L. Braunstein
- 861 MAPPING GROWTH OF LARGE TRANSMISSION NETWORKS USING DIFFERENT CLUSTERING ALGORITHMS**
Nathan Osman, Antoine Chaillon, Ruxandra-Ilinca Ibanescu, Isabelle Hardy, Irene Vrbik, Bonnie Spira, Luc Villandr , David Stephens, Michel Roger, Bluma G. Brenner
- 862 EPIDEMIOLOGIC CORRELATES OF HIV LINEAGE LEVEL DIVERSIFICATION RATE**
Angela McLaughlin, P. Richard Harrigan, Tetyana Kalynyak, Jinny Choi, Jeffrey Joy
- 863 GEOSPATIAL DISPERSAL OF HIV-1 TRANSMISSION IN 6 MAJOR CITIES IN GERMANY**
Melanie Stecher, Antoine Chaillon, Philipp De Leuw, Johannes Bogner, Anna M. Eis-H binger, Clara Lehmann, Georg Behrens, Olaf Degen, Christoph D. Spinner, Christoph Stephan, Joerg Janne Vehreschild, Sanjay R. Mehta, Martin Hoenigl, for the The Translational Platform HIV (TP-HIV) Molecular Epidemiology Team
- 864 PRETREATMENT HIV DRUG RESISTANCE SPREAD IN 6 GERMAN METROPOLITAN REGIONS**
Melanie Stecher, Martin Hoenigl, Philipp De Leuw, Josef Eberle, Jan-Christian Wasmuth, Georg Behrens, Guido Sch fer, Christoph D. Spinner, Christoph Stephan, Elena Knops, Sanjay R. Mehta, Joerg Janne Vehreschild, Antoine Chaillon, for the Translational Platform HIV (TP-HIV) Molecular Epidemiology Team
- 865 HIV DYNAMICS IN THE MOST AFFECTED AREA OF EUROPE: A TALE OF 2 COUNTRIES**
Lise Marty, Liis Lemsalu, **Dominique Costagliola**, Kaire Vals, Ruta Kaupe, Indra Linina, Inga Upmace, Kristi R  tel, Anda  ivite, Virginie Supervie, for the HERMETIC study group
- 866 WITHDRAWN/INTENTIONALLY UNASSIGNED**
- 867 CLUSTER SURVEILLANCE OF FRENCH PRIMARY INFECTIONS: TOWARD A MORE VIRULENT CRF02_AG?**
Benoit Visseaux, Lambert Assoumou, Mary Anne Traubaud, Brigitte Montes, Laurence Bocket, Samira Fafi-Kremer, Marc Wirden, Corinne Amiel, Anne De Monte, Karl Stefic, Camille Tumiotto, Anne Maillard, Diane Descamps, Marie-Laure Chaix Baudier, for the AC43 ANRS Resistance Group
- 868 WITHDRAWN/INTENTIONALLY UNASSIGNED**
- 869 NEW GENOMES FROM THE CONGO BASIN EXPAND HISTORY OF CRF01_AE ORIGIN AND DISSEMINATION**
Eduan Wilkinson, Ana Vallari, Dennis Maletich Junqueira, Carole McArthur, Lazare Kaptue, Dora Mbanya, Gavin Cloherty, Tulio de Oliveira, **Mary A. Rodgers**
- 870 PERSISTENT OUTBREAK OF THE HIV-1 CRF19_CPX VARIANT IN TREATMENT-NAIVE MSM PATIENTS**
Isabel Viciano, Carmen M. Gonz lez Domenech, Cristina Gomez-Ayerbe, Marisa Mayorga, Javier De La Torre Lima, Manuel Casta o, Rosario Palacios, Jesus Santos

- 871 PHYLOGENETIC ANALYSIS OF HIV FROM PWID IN EASTERN EUROPE AND ASIA: HPTN074**
Mariya V. Sivay, **Philip J. Palumbo**, Yinfeng Zhang, Kate Grabowski, Estelle Piwowar-Manning, Xu Guo, Erica Hamilton, Vivian Go, Kostyantyn Dumchev, Zubairi Djoerban, Brett Hanscom, Irving Hoffman, William C. Miller, Susan H. Eshleman, for the HPTN 074 Study Team
- 872 COMBINING OBSERVATIONAL AND PUBLIC HEALTH PHYLOGENETIC DATA TO IMPROVE HIV PREVENTION**
Ethan Morgan, Stephanie Schuette, Nanette Benbow, Richard D'Aquila, Brian Mustanski
- 873 MOBILITY PATTERNS CREATE DYNAMIC WIDELY DISPERSED RISK NETWORKS IN NAMIBIA**
Eugenio Valdano, Justin Okano, Vittoria Colizza, Sally Blower
- 874 SPATIAL ANALYSIS TO IDENTIFY EMERGING HOT SPOTS OF MTCT IN ZIMBABWE, 2012-2018**
Carolyn A. Fahey, Sandra I. McCoy, Aybuke Koyuncu, Mi-Suk Kang Dufour, Angela Mushavi, Agnes Mahomva, Nancy Padian, Frances Cowan
- 875 MAPPING OF HIV-1C TRANSMISSION NETWORKS IN BOTSWANA**
Vlad Novitsky, Melissa Zahralban-Steele, Sikhulile Moyo, Tapiwa Nkhisang, Dorcas Maruapula, Mary F. McLane, Jean Leidner, Kara Bennett, Tendani Gaolathe, Etienne Kadima, Shahin Lockman, Joseph Makhema, Simani Gaseitsiwe, Victor De Gruttola, Max Essex
- 876 HIV MOLECULAR SURVEILLANCE AND PRETREATMENT DRUG RESISTANCE IN MEXICO CITY**
Antoine Chaillon, Margarita Matías-Florentino, **Santiago Avila-Rios**, Sanjay R. Mehta, Hector E. Paz-Juarez, Manuel A. Becerril-Rodríguez, Silvia del Arenal, Alicia Piñeirúa, Verónica Ruiz, Patricia Iracheta-Hernández, Israel Macías-González, Jehovani Tena-Sánchez, Florentino Badial Hernandez, Gustavo Reyes-Terán
- 877 DETERMINANTS OF HIV DIFFUSION ACROSS MEXICO IDENTIFIED THROUGH SPATIAL EPIDEMIOLOGY**
Santiago Avila-Rios, Simon Dellicour, Claudia García-Morales, Daniela Tapia-Trejo, Margarita Matías-Florentino, Hector E. Paz-Juarez, Sanjay R. Mehta, Davey M. Smith, Gustavo Reyes-Terán, Bram Vrancken, **Antoine Chaillon**, for the Mexican HIV ResNet Group
- 878 WITHDRAWN/INTENTIONALLY UNASSIGNED**
- 879 LOCAL HUMAN MOBILITY AND TRANSMISSION ROUTES OF HIV CRF01_AE ACROSS CHINA**
Simon Dellicour, Bin Zhao, Xiaoxu Han, Minghui An, Hong Shang, Jin Zhao, Ping Zhong, Davey M. Smith, Bram Vrancken, **Antoine Chaillon**

Poster P-R4 SUBSTANCE USE AND HIV**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 880 SUBSTANCE USE DISORDERS ASSOCIATED WITH MORTALITY AMONG HIV+ IN WASHINGTON, DC**
Rupali K. Doshi, Morgan Byrne, Matthew E. Levy, Leah Varga, Irene Kuo, Michael A. Horberg, Amanda D. Castel, Anne K. Monroe, for the DC Cohort Executive Committee
- 881 ACCIDENTAL OVERDOSE DEATHS AMONG HIV+ INDIVIDUALS IN WASHINGTON, DC, 2013-2016**
Kerri Dorsey, Jenevieve Opoku, Rupali K. Doshi

- 882 RELEASED TO DIE: ELEVATED MORTALITY IN PEOPLE WITH HIV AFTER INCARCERATION**
Katherine M. Rich, Kelsey B. Loeliger, Divya K. Chandra, Dharushana Muthulingam, Keri N. Althoff, Colleen Gallagher, Jaimie P. Meyer, Frederick Altice
- 883 HIV AND OVERDOSE AMONG PEOPLE WHO INJECT DRUGS IN A COMMUNITY-BASED COHORT**
Becky L. Genberg, Jacque Astemborski, Jing Sun, Gregory D. Kirk, Shruti H. Mehta
- 884 ATTRIBUTABLE RISK OF METHAMPHETAMINE USE ON VIRAL SUPPRESSION AMONG MSM ON ART**
Jennifer A. Fulcher, Marjan Javanbakht, Chelsea L. Shover, Amy Ragsdale, Ron Brookmeyer, Steven Shoptaw, Pamina Gorbach
- 885 METHAMPHETAMINE DOSE, CLINICAL OUTCOMES, AND HIV STATUS LINKS AMONG DIVERSE MSM IN LA**
Steven Shoptaw, Marjan Javanbakht, Amy Ragsdale, Risa Flynn, Robert Bolan, Raul Mandler, Pamina M. Gorbach
- 886 HIV DIAGNOSES AMONG PEOPLE WHO INJECT DRUGS BY URBAN-RURAL CLASSIFICATION, 2014-2016**
Sheryl Lyss, Tianchi Zhang, Alexandra M. Oster
- 887 INJECTION AND SEXUAL BEHAVIORS AMONG PERSONS WITH DIAGNOSED HIV WHO INJECT DRUGS**
 Sharoda Dasgupta, Yunfeng Tie, **Ansley Lemons**, Kathleen Wu, Janet C. Burnett, R. L. Shouse, Linda Beer
- 888 HIV PHYLODYNAMIC ANALYSIS CORRELATES WITH TRENDS IN ILLICIT OPIOID TRADE IN PAKISTAN**
Francois Cholette, Jeffrey Joy, Yann Pelcat, Laura Thompson, Richard Pilon, John Ho, Rupert Capina, Chris Archibald, James F. Blanchard, Faran Emmanuel, Tahira Reza, John Kim, Paul Sandstrom
- 889 IMPROVING CHRONIC OPIOID THERAPY AMONG PEOPLE LIVING WITH HIV: A CLINICAL RCT**
Jeffrey H. Samet, Jane Liebschutz, Debbie Cheng, Jonathan Colasanti, Judith I. Tsui, Marlene C. Lira, Leah S. Forman, Christopher W. Shanahan, Meg Sullivan, Christin Root, Carly Bridden, Christine Capozzi, Wendy S. Armstrong, Alexander Y. Walley, Carlos del Rio
- 890 HIV CARE OUTCOMES AMONG SUBSTANCE USERS IN PUERTO RICO FOLLOWING HURRICANE MARIA**
Diana Hernandez, Lisa R. Metsch, Pedro C. Castellón, Sandra Miranda de Leon, Glenda O. Davila-Torres, Yue Pan, Allan Rodriguez, Iveth G. Yanez, Mariela Maisonet Alejandro, Wilmarie L. Calderón Alicea, Gabriel Cardenas, Héctor J. Meléndez-González, Lauren Gooden, Daniel J. Feaster, Jorge L. Santana
- 891 AN OUTBREAK OF HIV IN HOMELESS HETEROSEXUALS WHO INJECT DRUGS IN NORTH SEATTLE, WA**
Matthew R. Golden, Richard Lechtenberg, Sara N. Glick, Julia C. Dombrowski, Jeff Duchin, Jenifer R. Reuer, Shireesha Dhanireddy, Santiago Neme, Susan E. Buskin
- 892 ASSISTED PARTNER SERVICES AMONG PEOPLE WHO INJECT DRUGS IN NAIROBI, KENYA**
 Aliza Monroe-Wise, **Brandon Guthrie**, Loice Mbogo, Bill Sinkele, David Bukusi, Matthew Dunbar, Paul Macharia, Esther Gitau, Betsy Sambai, Helgar Musyoki, Sarah Masyuko, Joshua T. Herbeck, Carey Farquhar

893 SUICIDE RATES AMONG US ADULTS LIVING WITH HIV, 2000-2015

Keri N. Althoff, Paul S. Nestadt, Jennifer S. Lee, Stephen J. Gange, Peter F. Rebeiro, Michael A. Horberg, Michael J. Silverberg, Elizabeth Humes, Amy C. Justice, Angel M. Mayor, Charles Rabkin, Frank J. Palella, Anita Rachlis, Richard D. Moore, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

Poster P-T3 PrEP ROLL-OUT AND DELIVERY**Poster Hall - 4EF****2:30 PM - 4:00 PM****954 LINKAGE TO CARE IN THE PARTNER SERVICES PRE-EXPOSURE PROPHYLAXIS (PS-PrEP) STUDY**

Daniel S. Teixeira da Silva, Alida Bouris, Olivia Blocker, Billy Davis, James Harris, Ramona Bhatia, John A. Schneider

955 PILOT TEST OF A PrEP TELEMEDICINE SYSTEM FOR YOUNG BLACK MSM IN THE RURAL US SOUTH

Aaron J. Siegler, James B. Brock, Colleen F. Kelley, Lauren A. Ahlschlager, Charlotte-Paige M. Rolle, Saiya Sheth, Gretchen Wilde, Karen Dominguez, Shanita Greer, Leandro A. Mena

956 RAPID PrEP UPTAKE IN A PUBLICLY FUNDED POPULATION-BASED PROGRAM IN BRITISH COLUMBIA

K. Junine Toy, Jason Trigg, Wendy Zhang, Paul Sereda, Viviane D. Lima, Katherine Lepik, Mark Hull, Raquel M. Espinoza, Silvia Guillemi, David Hall, David M. Moore, Rolando Barrios, Julio S. Montaner

957 RISK FACTORS ASSOCIATED WITH NONPRESCRIPTION USE OF HIV PREEXPOSURE PROPHYLAXIS

Uwe Koppe, Ulrich Marcus, Stefan Albrecht, Klaus Jansen, Heiko Jessen, Barbara Gunsenheimer-Bartmeyer, Viviane Bremer

958 PREFERENCES FOR PrEP DELIVERY AMONG FSW IN MALAWI USING A DISCRETE CHOICE EXPERIMENT

Kathryn E. Lancaster, Thandie Lungu, Agatha Bula, Abigail Shoben, Mina C. Hosseinipour, Raquel E. Kohler, Irving Hoffman, Vivian Go, Carol E. Golin, Stephanie Wheeler, William C. Miller

959 PREEXPOSURE PROPHYLAXIS FOR KEY POPULATIONS IN UGANDA: EARLY SCALE-UP LESSONS

Joseph Lubwama, Stella Alamo, Caroline Ajulong, Enos Sande, Lisa A. Mills, Donna Kabatesi, Lisa J. Nelson

Poster P-T4 PrEP IN FITS AND STARTS**Poster Hall - 4EF****2:30 PM - 4:00 PM****960 CHANGES IN KIDNEY FUNCTION AMONG MSM INITIATING ON-DEMAND TDF/FTC FOR HIV PrEP**

Geoffroy Liegeon, Guillemette Antoni, Gilles Pialoux, Laurent Cotte, Cécile L. Tremblay, Catherine Capitant, Eric Cua, François Raffi, Eric Senneville, Pierre Charbonneau, Soizic Le Mestre, Veronique Dore, Laurence Meyer, Jean-Michel Molina, for the ANRS IPERGAY Study Group

961 POINT-OF-CARE CREATININE TESTING WITHIN A PROGRAMMATIC PrEP DELIVERY SETTING

Jillian Pintye, Felix Abuna, John Kinuthia, Harrison Lagat, Kenneth K. Mugwanya, Julia Dettinger, Emily R. Begnel, Marline Serede, Joseph Sila, Jared Baeten, Grace John-Stewart, for the PrEP Implementation for Young Women and Adolescents (PrYA) Program

962 IMMEDIATE PrEP INITIATION AT NEW YORK CITY SEXUAL HEALTH CLINICS

Tarek Mikati, Kelly Jamison, Demetre C. Daskalakis

963 PrEP PERSISTENCE AND DISCONTINUATIONS IN A COHORT OF YOUNG BLACK MSM IN ATLANTA, GA

David P. Serota, Eli Rosenberg, Annie M. Lockard, Carlos del Rio, Nicole Luisi, Scott R. Cutro, Charlotte-Paige M. Rolle, Aaron J. Siegler, Travis Sanchez, Patrick S. Sullivan, Colleen F. Kelley

964 LOW UPTAKE OF PREEXPOSURE PROPHYLAXIS AMONG KENYAN ADOLESCENT GIRLS AT RISK OF HIV

Lynda M. Oluoch, Nelly R. Mugo, Alison C. Roxby, Anna Wald, Stacy Selke, Amalia Magaret, Kenneth Ngure, Murugi Micheni, Steven Gakuo, Bhavna Chohan, Catherine Kiptinness

Poster P-T5 STIs IN PEOPLE AND MONKEYS USING PrEP**Poster Hall - 4EF****2:30 PM - 4:00 PM****965 HIGH CURABLE STI PREVALENCE AND INCIDENCE AMONG YOUNG AFRICAN WOMEN IN HPTN 082**

Sinead Delany-Moretlwe, Nyaradzo Mgodi, Linda-Gail Bekker, Jared Baeten, Subash Pathak, Deborah J. Donnell, Denni Lennon, Scott M. Rose, Keolopile Makgamathe, Sheetal Kassim, Shorai Mukaka, Heather Noble, Adeola Adeyeye, Connie L. Celum

966 HIGH PREVALENCE AND ANTIBIOTIC RESISTANCE OF M GENITALIUM INFECTIONS IN MSM ON PrEP

Beatrice Bercot, Isabelle Charreau, Clotilde Rousseau, Constance Delaugerre, Christian Chidiac, Gilles Pialoux, Catherine Capitant, Nadege Bourgeois-Nicolaos, François Raffi, Sabine Pereyre, Eric Senneville, Laurence Meyer, **Cecile Bebear**, Jean-Michel Molina, for the ANRS Ipergay Study Group.

967 ASSOCIATION OF PrEP USE AND PAST AND CURRENT STIs AMONG MSM IN WASHINGTON, DC, 2017

Laura M. Torres, Anya Agopian, Anthony Rawls, Jenevieve Opoku, Manya Magnus, Matthew E. Levy, Michael Kharfen, Irene Kuo

968 DETECTED EXTRAGENITAL STI AMONG US MSM BY PrEP STATUS

Johanna Chapin-Bardales, Michelle L. Johnson Jones, Robert D. Kirkcaldy, Kyle T. Bernstein, Christi Phillips, John R. Papp, Henry F. Raymond, Jenevieve Opoku, Sarah L. Braunstein, Emma C. Spencer, Salma Khuwaja, Cyprian Wejnert, for the NHBS Study Group

969 STI COINFECTIONS DO NOT REDUCE THE PROPHYLACTIC EFFICACY OF CAB LA IN MACAQUES

Roopa Luthra, Chunxia Zhao, William Spreen, Chuong Dinh, James Mitchell, Frank Deyoungs, Kenneth Sutton, Walid Heneine, Gerardo Garcia-Lerma, Janet McNicholl, **Sundaram Ajay Vishwanathan**

970 ANTI-A4B7 ANTIBODY REDUCES MACAQUE VIREMIA BUT NOT RISK OF RECTAL SHIV ACQUISITION

Chunxia Zhao, Roopa Luthra, Michele Daly, Dawn Little, Gerardo Garcia-Lerma, Debra R. Adams, Jining Zhang, Aftab A. Ansari, Siddappa N. Byrareddy, Janet McNicholl, **Sundaram A. Vishwanathan**

Poster P-U4 THE MASKED MARVELS YOU DON'T WANT TO MEET: SYPHILIS AND LGV**Poster Hall - 4EF****2:30 PM - 4:00 PM****1011 EFFECTIVE TREATMENT OF LYMPHOGRANULOMA PROCTITIS WITH EXTENDED AZITHROMYCIN REGIMEN**

José L. Blanco, Irene Fuertes, Jordi Bosch, Ana González-Cordón, Esteban Martínez, Andrea Vergara, Teresa Estrach, Jose M. Gatell, Alsina Merçç

- 1012 ADHERENCE OF HEALTH CARE PROVIDERS TO CDC LUMBAR-PUNCTURE CRITERIA AMONG SYPHILIS/HIV**
Barbara L. Henriques, Vivian I. Avelino-Silva, Marilia B. Antonio, Jose E. Vidal
- 1013 HEARING LOSS IN UNSELECTED INDIVIDUALS WITH SYPHILIS**
Meena Ramchandani, Jamie Litvack, Clare Maxwell, Lauren Tantalo, Sharon Sahi, Shelia Dunaway, Christina Marra
- 1014 COGNITIVE IMPAIRMENT IN INDIVIDUALS WITH SYPHILIS**
Kevin Robertson, Haley Mendoza, Clare Maxwell, Shelia Dunaway, Arielle P. Davis, Sharon Sahi, Lauren Tantalo, Jana Zahlan, Sheryl Storey, Christina Marra
- 1015 RESPONSE TO SYPHILIS TREATMENT: CDC GUIDELINES IN HIV-INFECTED ADULTS ON cART**
Melody Ren, Leah Szadkowski, Darrell H. Tan, Sharon Walmsley

Poster P-V3 CASCADE OF CARE

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 1034 PREVALENCE AND CORRELATES OF NONENROLLMENT IN HIV CARE, CHÓKWÈ DISTRICT, MOZAMBIQUE**
Kristen Heitzinger, Anne F. McIntyre, Isabelle Casavant, Noela Chicuecue, Victor Chivurre, Aleny Couto, Keydra Oladapo
- 1035 HIV TREATMENT CASCADE AMONG MEN WHO HAVE SEX WITH MEN IN KIGALI, RWANDA**
Jean Olivier Twahirwa Rwema, Benjamin Liestman, Julien Nyombayire, Sosthenes Ketende, Amelia Mazzei, Carrie E. Lyons, Oluwasolape M. Olawore, Mugwaneza Placidie, Stefan Baral, Patrick S. Sullivan, Susan Allen, Etienne Karita
- 1036 LONGITUDINAL HIV CARE TRAJECTORIES IN THE CNICS COHORT: A RETROSPECTIVE COHORT STUDY**
Kimberly A. Powers, W. C. Mathews, Kenneth H. Mayer, Ellen F. Eaton, Elvin Geng, Richard D. Moore, Michael J. Mugavero, Joseph J. Eron
- 1037 CALL FOR LIFE UGANDA TM: AN RCT USING INTERACTIVE VOICE RESPONSE FOR PLHIV ON ART**
Rosalind M. Parkes-Ratanshi, Maria S. Nabaggala, Agnes N. Bwanika, Mohammed Lamorde, Rachel King, Noela Owarwo, Eva A. Laker Odongpiny, Richard Orama, Barbara Castelnuovo, Agnes Kiragga
- 1038 HIV CARE CONTINUUM CHANGES AMONG PWID AND MSM IN INDIA: A TALE OF 2 KEY POPULATIONS**
Gregory M. Lucas, Sunil S. Solomon, Allison M. McFall, Aylur K. Srikrishnan, Canjeevaram K. Vasudevan, Santhanam Anand, Vinita Verma, Kuldeep Sachdeva, David D. Celentano, Suniti Solomon, Shruti H. Mehta
- 1039 HIV OUTCOMES AMONG TRANSGENDER MEN IN HRSA'S RYAN WHITE HIV/AIDS PROGRAM, 2010-2016**
Stacy Cohen, Demetrios A. Psihopaidas, Antigone Dempsey, Laura W. Cheever
- 1040 ENGAGEMENT IN CARE OF HIGH-RISK PATIENTS AT AN URBAN HIV PRIMARY CARE CENTER**
Raaka Kumbhakar, Mila Gonzalez Davila, Randi Scott, Noga Shalev, Susan Olender
- 1041 PRAISE MESSAGES TO INCREASE ART ADHERENCE AND RETENTION IN CARE FOR FSW IN ETHIOPIA**
 Nicholas Wilson, **Kristen Little**, Aderaw Anteneh, Woldemariam Girma, Kelly Bidwell

- 1042 REPEAT NONADHERENCE TO CLINIC APPOINTMENTS AMONG HIV-INFECTED ADULTS ON ART IN KENYA**
Jacques Muthusi, Tai Ho Chen, Kenneth Masamaro, Peter W. Young, Emily C. Zielinski-Gutierrez
- 1043 ATTRITION ALONG THE CARE CASCADE IN SOUTH AFRICAN EMERGENCY DEPARTMENTS**
Bhakti Hansoti, Aditi Rao, George Mwinnyaa, John Black, Reinaldo Fernandez, Elizabeth Hahn, Oliver Laeyendecker, Roshen Maharaj, Pamela Mda, Jernelle Miller, Andrew D. Redd, Steven J. Reynolds, David Stead, Thomas C. Quinn, for the WISE research group
- 1044 SMOKING AND UNHEALTHY DRINKING AND THE HIV CARE CONTINUUM**
Derek Satre, Tory Levine-Hall, Amy C. Justice, Margaret May, Jonathan Sterne, Matthias Cavassini, Jennifer O. Lam, Stacey Alexeeff, Stacy Sterling, Kendall J. Bryant, Paul Volberding, Constance Weisner, Michael A. Horberg, Michael J. Silverberg

Poster P-W1 MODELING AND MONEY

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 1073 SOCIOECONOMIC IMPACTS OF UNIVERSAL ANTIRETROVIRAL THERAPY IN THE SEARCH TRIAL**
Harsha Thirumurthy, Aleksandra Jakubowski, Yan He, Jane Kabami, Dalsone Kwarisiima, Norton Sang, Laura B. Balzer, Tamara D. Clark, Edwin D. Charlebois, Gabriel Chamie, Craig R. Cohen, Elizabeth A. Bukusi, Moses R. Kanya, Maya L. Petersen, Diane V. Havlir
- 1074 CONDOM USE AND PRICES IN TRANSACTIONAL SEX ENCOUNTERS AMONG HIGH-RISK WOMEN IN KENYA**
Harsha Thirumurthy, Yan He, Perez Ochwal, Noora Marcus, Sue Napierala, Suzanne Maman, Kawango Agot
- 1075 SABES: A COST-EFFECTIVE TasP INTERVENTION TO IDENTIFY AND TREAT RECENT HIV INFECTIONS**
Angela K. Ulrich, Blythe J. Adamson, Dobromir Dimitrov, Robert De la Grecca, Daniel Wood, Enrique M. Saldarriaga, Rikita Bansal, Joseph Babigumira, Robinson Cabello, Hugo Sanchez, Jorge Sanchez, Javier R. Lama, Ann Duerr
- 1076 COST-EFFECTIVENESS OF LONG-ACTING ART FOR ADOLESCENTS AND YOUNG ADULTS IN KENYA**
Jessica Culhane, Monisha Sharma, Katherine Wilson, Allen Roberts, Cyrus Mugo, Dalton Wamalwa, Irene Inwani, Ruanne V. Barnabas, Pamela K. Kohler
- 1077 COST-EFFECTIVENESS OF LONG-ACTING MULTIPURPOSE PREVENTION TECHNOLOGY IN SOUTH AFRICA**
 Marjolein M. van Vliet, Cheryl J. Hendrickson, Brooke E. Nichols, Charles Boucher, Remco P. Peters, **David van de Vijver**
- 1078 NONADHERENCE DUE TO PRESCRIPTION DRUG COSTS AMONG US ADULTS WITH HIV, 2015-2016**
 Linda Beer, Yunfeng Tie, John Weiser, **Christine Agnew-Brune**, R. L. Shouse, for the Medical Monitoring Project
- 1079 HEALTH CARE UTILIZATION AND COSTS OF ACCESSING HEALTH CARE IN SOUTH AFRICA AND ZAMBIA**
Sarah Kanema, Ranjeeta Thomas, Lawrence Mwenge, Justin Bwalya, Nomtha Mandla, Helen Ayles, Peter Bock, Sarah Fidler, Richard Hayes, Katharina Hauck, for the HPTN071-PopART

- 1080 COST AND IMPACT OF COMMUNITY-BASED, ASSISTED HIV SELF-TESTING AMONGST YOUTH IN ZAMBIA**
Brooke E. Nichols, **Refiloe Cele**, Charles Chasela, Zombe Siwale, Alimwi S. Lungu, Lawrence Long, Crispin Moyo, Sydney Rosen, Roma Chilengi, for the EQUIP Health team
- 1081 COST-EFFECTIVENESS AND NATIONAL IMPACT OF INDEX HIV SELF-TESTING IN MALAWI**
Ogechukwu Offorjebe, Kathryn Dovel, Frackson Shaba, Kelvin Balakasi, Risa M. Hoffman, Sydney Rosen, **Brooke E. Nichols**, for the EQUIP Health team
- 1082 THE COST OF PrEP DELIVERY IN KENYAN ANTENATAL, POSTNATAL, AND FAMILY PLANNING CLINICS**
Allen Roberts, Ruanne V. Barnabas, Felix Abuna, Harrison Lagat, John Kinuthia, Jillian Pintye, Aaron Bochner, Jared Baeten, Grace John-Stewart, Carol Levine
- 1083 COST-EFFECTIVENESS OF PREEXPOSURE PROPHYLAXIS AMONG ADOLESCENT SEXUAL MINORITY MALES**
Li Yan Wang, Deven T. Hamilton, Eli Rosenberg, Patrick S. Sullivan, David A. Katz, Richard Dunville, Lisa C. Barrios, Maria Aslam, Steven M. Goodreau

THURSDAY MARCH 7, 2019

Poster P-A5 HIV NEF**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 188 HOMODIMERIZATION IS REQUIRED FOR HIV-1 NEF FUNCTION IN HUMANIZED MICE**
Sherry Shu, Li Chen, Tom E. Smithgall
- 189 RESTING HIV-INFECTED CD4 T CELLS EXPRESS NEF AND VPU, WHICH DOWNREGULATE MHC AND BST2**
Rodrigo Matus-Nicodemos, Daniel Douek, Richard A. Koup
- 190 IMPAIRED NEF'S ABILITY TO COUNTERACT SERINC5 BY IMMUNE-DRIVEN MUTATIONS**
Mako Toyoda, Doreen Kamori, Jonathan Carlson, Ai Kawana-Tachikawa, Hiroyuki Gatanaga, Shinichi Oka, Takamasa Ueno
- 191 SYNTHESIS AND EVALUATION OF TIGHT-BINDING HYDROXYPYRAZOLE INHIBITORS OF HIV-1 NEF**
Haibin Shi, Colin Tice, Lori A. Emert-Sedlak, Li Chen, Wing Fai Li, Jay E. Wrobel, Allen B. Reitz, **Thomas E. Smithgall**
- 192 ACTIVATION OF TEC KINASES BY HIV-1 NEF AT THE CELL MEMBRANE REQUIRES DIMER FORMATION**
Wing Fai Li, Sherry Shu, Tom E. Smithgall
- 193 ACTIVATION OF TEC-FAMILY KINASES ITK AND BTK BY HIV-1 AND SIV NEF PROTEINS IN VITRO**
Manish Aryal, Kindra Whitlatch, Tom E. Smithgall
- 194 NEF DIMERIZATION REGULATES HIV-1 INFECTIVITY AND SERINC5 INCORPORATION**
Ryan Staudt, Thomas E. Smithgall
- 195 LIPID BINDING DOMAIN IMPACT ON HIV-1 NEF AND SRC-FAMILY KINASE HCK U-SH3-SH2 COMPLEX**
John Alvarado, Haibin Shi, Thomas E. Smithgall

Poster P-B7 LONG-TERM EFFECTS OF HIV AND ART**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 243 GLUTAMINOLYSIS AND LIPOPROTEINS KEY FACTORS IN HIV LATE IMMUNE RECOVERY**
Anna Rull, Isaac Rosado-Sánchez, **Esther Rodríguez-Gallego**, Joaquim Peraire, Consuelo Viladés, Sergi Veloso, María Peñaranda, Félix Gutiérrez, Jesus Santos, Enrique Bernal, Ricardo Pelazas, Manuel Leal, Francesc Vidal, Yolanda M. Pacheco
- 244 EXPANSION OF MYELOID-DERIVED SUPPRESSOR CELLS IN ART-SUPPRESSED HIV-INFECTED PATIENTS**
Carla Serra Peinado, Laura Luque-Ballesteros, Rein Willekens, Jordi Navarro, Adrià Curran, Joaquin Burgos, Esteban Ribera, Ariadna Torrella, Bibiana Planas, Rosa Badía, Josep Castellví, Vicenç Falcó, María J. Buzón
- 245 CIRCULATING B-D-GLUCAN AND INDUCTION OF IMMUNE ACTIVATION**
Stéphane Isnard, Rayoun Ramendra, Franck P. Dupuy, Vikram Mehraj, Rosalie Ponte, Jun Chen, Cecilia Costiniuk, Réjean Thomas, Jean-Guy Baril, Madeleine Durand, Cécile Tremblay, Petronela Ancuta, Nicole Bernard, Don C. Sheppard, Jean-Pierre Routy

- 246 MINING FOR CD4 CELL RECOVERY PHENOTYPE REVEALS DISTINCT PATTERN FOR BLACK ETHNICITY**
Teja Turk, Christian Thorball, Jacques Fellay, Alexandra Trkola, Peter Rusert, Karin Metzner, Dominique L. Braun, Jürg Böni, Sabine Yerly, Vincent Aubert, Thomas Klimkait, Huldrych F. Günthard, Roger Kouyos, for the Swiss HIV Cohort Study
- 247 SPD-L1: A POTENTIAL NOVEL IMMUNE MARKER FOR HIV-1 INFECTION AND VIROLOGIC FAILURE**
Jose Avendaño-Ortiz, Marina Rubio Garrido, Emilio Llanos-González, Jorge Romero, Santiago Moreno, Carmen Rodriguez, Eduardo López-Collazo, Africa Holguin
- 248 IMPACT OF HIV INFECTION AND ANTIRETROVIRAL THERAPY ON IMMUNE CELLULAR FUNCTIONS**
Marek Korencak, Enrico Richter, Bruce T. Schultz, Patrick Juszczak, Buena D. Reyes, Sandra Winning, Joachim Fandrey, Stefan Esser, Hendrik Streeck
- 249 HIV-1 DIVERSITY IN GUT IS ASSOCIATED WITH RESIDUAL MUCOSAL VIRUS PRODUCTION ON ART**
Manon Nayrac, Mary Requena, Nicolas Jeanne, Maud Mavigner, Claire Loiseau, Romain Carcenac, Michelle Cazabat, Jacques Izopet, Pierre Delobel
- 250 ASSOCIATION BETWEEN HIV ANTIBODIES AND D-DIMER: ROLE OF "DEFECTIVE" PROVIRUSES**
 Hiromi Imamichi, **Tracey D. Zhai**, Nicole E. Winchester, Francesca Scrimieri, Mindy Smith, Thomas Buerkert, Ivery Davis, Adam Rupert, Robin L. Dewar, Joseph A. Kovacs, H. Clifford Lane
- 251 ANTI-CD4 AUTOANTIBODIES ARE ASSOCIATED WITH DISCORDANT IMMUNOLOGICAL RESPONSES TO ART**
 Andrea Lisco, **Charalampos Mystakelis**, Chun-Shu Wong, Gregg Roby, Virginia Sheikh, Peter Burbelo, Iriini Sereti
- 252 SEX DIFFERENCES IN CMV REPLICATION AND HIV PERSISTENCE DURING SUPPRESSIVE ART**
Sara Gianella, Sarah McDonald Tran, Milenka Vargas, Gemma Caballero, Michelli Faria de Oliveira, Steven Lada, Mitchell Zhao, Jyoti S. Mathad, Timothy Wilkin
- 253 EBV AND CMV LEVELS IN BLOOD ARE ASSOCIATED WITH NON-AIDS EVENTS DURING ART**
Sara Gianella, Carlee Moser, Andrej Vitomirov, Ashley McKhann, Laura Layman, Brianna Scott, Steven Lada, Ronald Bosch, Martin Hoenigl, Nell Lurain, Alan Landay, Michael M. Lederman, Peter W. Hunt, Davey M. Smith
- 254 GAMMA DELTA T-CELL IR SIGNATURES REVEAL DIVERGENCE OF HEALTHY AND AVIREMIC HIV+ AGING**
 Anna C. Belkina, Alina Starchenko, Katherine Drake, Elizabeth Proctor, Riley Pihl, Alex J. Olson, Douglas Lauffenburger, Nina Lin, **Jennifer Snyder-Cappione**
- 255 SENEESCENCE & EXHAUSTION OF T-CELL MEMORY SUBSETS INCREASED IN AGING PERSONS WITH HIV**
Jessica L. Castilho, Louise Barnett, Megan M. Turner, Joshua Simmons, Cindy Hager, Rita M. Smith, Beverly O. Woodward, Morgan Lima, Briana Furch, Mark Pilkinton, Timothy R. Sterling, Spyros Kalams
- 256 CLONAL HEMATOPOIESIS AMONG OLDER TREATED HIV+ PERSONS ENROLLED IN COCOMO**
Álvaro H. Borges, Christian H. Eskelund, Rebekka F. Thudium, Yanan Zhao, Andreas D. Knudsen, Marco Gelpi, Cavan Reilly, James Pankow, Mark Polizzotto, Francesco Favero, Sisse R. Ostrowski, Klaus F. Kofoed, Joachim Weischenfeldt, Kirsten Grønbaek, Susanne D. Nielsen, for the COCOMO

257 IMMUNOSENESCENCE IN HIV IS ASSOCIATED WITH CMV STATUS AND LOWER CD4:CD8 RATIO

Tara McGinty, Sarah Miles, Willard Tinago, Caroline Sabin, Alan Landay, Jeffrey Martinson, Charlotte Prior, Brenda Doak, Cillian De Gascun, Alan Macken, Gerard Sheehan, John Lambert, Aoife G. Cotter, Patrick W. Mallon

258 TELOMERE LENGTH, TELOMERASE ACTIVITY, AND AGE-RELATED DISEASE: ACTG NWCS 422

Chad J. Achenbach, Drew Nannini, Isabelle Clerc, Hannah Hudson, Brian Joyce, Kunling Wu, Katherine Tassiopoulos, Peter W. Hunt, Babafemi Taiwo, Richard D'Aquila, Sudhir Penugonda, Lifang Hou, Frank J. Palella

Poster P-B8 HIV ELITE CONTROL**Poster Hall - 4EF****2:30 PM - 4:00 PM****259 MOVED TO POSTER SESSION P-E04****260 RNAPOL III CONNECTS RIG-I AND CGAS HIV-SENSING PATHWAYS IN DC FROM ELITE CONTROLLERS**

Enrique Martin-Gayo, Ce Gao, Zhengyu Ouyang, Bruce D. Walker, Mathias Lichtenfeld, Xu G. Yu

261 PROTEOMIC PROFILE ASSOCIATED WITH LOSS OF SPONTANEOUS HIV-1 ELITE CONTROL

Laura Tarancon-Diez, Esther Rodríguez-Gallego, Felipe Garcia, Verónica Alba, Jorge Romero, José Miguel Benito, Pol Herrero, Anna Rull, Beatriz Dominguez-Molina, Joaquim Peraire, Consuelo Viladés, Manuel Leal, Francesc Vidal, Ezequiel Ruiz-Mateos, for the ECRIS integrated in the Spanish AIDS Research Network

262 ANTI-GP120 ANTIBODY TITRES CORRELATE WITH AB-DEPENDENT FUNCTIONS IN HIV CONTROLLERS

Sanket Kant, Franck P. Dupuy, Chris Leeks, Alexandre Barbe, Ningyu Zhang, Cindy X. Zhang, Jean-Pierre Routy, Petronela Ancuta, Cécile L. Tremblay, Nicole Bernard

263 RAPID DECLINE OF IMMUNE ACTIVATION WITH ART IN HIV CONTROLLERS WITH LOW CD4 COUNTS

Abena Kwaa, Eileen P. Scully, Joel Blankson

264 ELITE CONTROL OF HIV-1 INFECTION IS ASSOCIATED WITH REDUCED TRILSHORT EXPRESSION

Ana Catarina De Oliveira Virgens Paim, Sekar Natesampillai, Nathan Cummins, Enrique Garcia-Rivera, Nicole Kogan, Ujjwal Neogi, Gary D. Bren, Stacey Rizza, Steven G. Deeks, Eric C. Polley, Andrew Badley

265 HIV-DNA CONTENT IN PTFH CELLS IS ASSOCIATED WITH RESIDUAL VIREMIA IN ELITE CONTROLLERS

Marcial García, Vincent Morcilla, María Ángeles Navarrete, Katie Fisher, Alfonso Cabello, Juan Carlos López-Bernaldo, Francisco Javier De La Hera, Carlos Barros, Manuel Fernández, Vicente Estrada, Miguel Górgolas, Sarah Palmer, José Miguel Benito, **Norma Rallón**

266 CXCR3+ FOLLICULAR HELPER TC ARE ASSOCIATED WITH HIV CONTROL DURING CHRONIC INFECTION

Gonzalo Salgado-Montes de Oca, Perla Del Río-Estrada, Yuria Ablanedo Terrazas, Amaranta Y. Rivero-Arrieta, Gustavo Reyes-Terán

267 METABOLOMIC PROFILE ASSOCIATED WITH LOSS OF SPONTANEOUS HIV-1 ELITE CONTROL

Esther Rodríguez-Gallego, Laura Tarancon-Diez, Verónica Alba, Anna Rull, Joaquim Peraire, Consuelo Viladés, Agathe León, Norma Rallón, Carmen Rodriguez, Cecilio Lopez-Galindez, Maria Pernas, Manuel Leal, Francesc Vidal, Ezequiel Ruiz-Mateos, for the ECRIS integrated in the Spanish AIDS Research Network

Poster P-C3 AIDS MALIGNANCIES: EPIDEMIOLOGY, CANCER RISK, AND MORTALITY

Poster Hall - 4EF

2:30 PM - 4:00 PM

285 CD4/CD8 RATIO AS A PREDICTOR OF HIV-ASSOCIATED CANCERS IN CNICS

Chad J. Achenbach, Brian Joyce, Lifang Hou, Elizabeth Hibler, Jeffrey N. Martin, W. C. Mathews, Richard D. Moore, Thibaut Davy-Mendez, Benigno Rodriguez, Kenneth H. Mayer, Michael Saag, Mari Kitahata, for the CFAR Network of Integrated Clinical Systems (CNICS)

286 CAUSES OF DEATH AFTER CANCER DIAGNOSIS AMONG PLHIV ON ART: COHORT COLLABORATION

Adam Trickey, Michael John Gill, Dominique Costagliola, Sophie Grabar, Amy C. Justice, Suzanne Ingle, Julia Del Amo, Antonella D'Arminio Monforte, Fabrice Bonnet, Joerg Janne Vehreschild, Ferdinand Wit, Katharina Grabmeier-Pfistershammer, Leah Shepherd, Ramon Teira, **Jonathan Sterne**

287 AIDS PROGRESSION AND NON-AIDS DEATH IN PEOPLE WITH HIV FOLLOWING CANCER TREATMENT

Keri Calkins, Geetanjali Chander, Corinne Joshu, Kala Visvanathan, Anthony T. Fojo, Catherine R. Lesko, Richard D. Moore, **Bryan Lau**

288 VACS INDEX BETTER PREDICTOR OF MORTALITY AFTER CANCER IN HIV+ AND HIV- THAN CHARLSON

Keith M. Sigel, Lesley S. Park, Kimberly Stone, Cynthia L. Gibert, Matthew B. Goetz, Roger Bedimo, Roxanne Wadia, Maria Rodriguez-Barradas, Fatma Shebl, Janet Tate, Amy C. Justice, Sheldon T. Brown, Kristina Crothers

289 AIDS- AND NON-AIDS-DEFINING CANCER INCIDENCE, 2010-2015, IN THE DAT/AIDS COHORT

Camelia Protopopescu, Antoine Chéret, Alain Makinson, David Rey, Claudine Duvivier, Clotilde Allavena, Pascal Pugliese, Tristan Ferry, Thomas Huleux, Pierre Delobel, André Cabié, Isabelle Lamaury, Patricia Carrieri, isabelle Poizot-Martin, for the Dat/AIDS study group

290 CANCER INCIDENCE AMONG A COHORT OF PERSONS RECEIVING HIV CARE IN WASHINGTON, DC

Amanda B. Spence, Matthew E. Levy, Anne K. Monroe, Joseph Timpone, Amanda D. Castel, Michael A. Horberg, Princy Kumar, for the DC Cohort Executive Committee

291 HIGH CD20 LEVELS IN LUNG CANCER TISSUE FROM PLWH ASSOCIATED WITH IMPROVED SURVIVAL

Ramsey Yusuf, Franz Villarroel, Kristen Hysell, Fangyong Li, Kurt Schalper, Brinda Emu

292 BURKITT LYMPHOMA IN THE ART ERA: STABLE INCIDENCE AND POOR SURVIVAL

Eva Clark, Kathryn E. Royse, Elaine Chang, Suchismita Raychaudhury, Jennifer R. Kramer, Donna L. White, Elizabeth Chiao

Poster P-D4 STUDIES OF NK AND T CELL FUNCTION

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- 313 REGULATION OF HIV-SPECIFIC CD8+ T-CELL FUNCTIONAL CAPACITY**
Rachel L. Rutishauser, Christian Deo T. Deguit, Hossam Abdelsamed, Ashish Sharma, Susan P. Ribeiro, Rebecca Hoh, Melissa Krone, Frederick M. Hecht, Christopher D. Pilcher, Jeffrey N. Martin, Benjamin A. Youngblood, Rafick-Pierre Sekaly, Steven G. Deeks, Joseph M. McCune, Peter W. Hunt
- 314 PRESERVED TELOMERASE ACTIVITY AND TELOMERE LENGTH IN CD28- CD8 T CELLS IN TREATED HIV**
Jue Lin, Jeffery Milush, Norman G. Jones, Alexander Carvidi, Heather Hartig, Steven G. Deeks, Jeffrey N. Martin, Sulggi Lee, Elizabeth Blackburn, Peter W. Hunt
- 315 IMPACT OF INTEGRASE INHIBITORS ON CD8 T-CELL FUNCTION AND ACTIVITY**
Enrico Richter, Marek Korenca, Lea Bornemann, Marc Schuster, Matthias Gunzer, Stefan Esser, Hendrik Streeck
- 316 CD8 T-CELL INHIBITORY RECEPTOR EXPRESSION IS ASSOCIATED WITH CANCER AMONG PLWH ON ART**
Omkar Chaudhary, Diane Trotta, Xiuping Chu, Chip Bradley, Xun Wang, Jason Okulicz, Ryan Maves, Karl Kronmann, Christina Schofield, Brian K. Agan, Anuradha Ganesan, Brinda Emu
- 317 IMPACT OF ART ON T-CELL REPERTOIRES OF HIV-INFECTED ADULTS WITH AND WITHOUT CANCER**
Abrahams Omoding, Andrea Towleron, David Coffey, Warren Phipps, Edus H. Warren
- 318 FINDING THE CELLS AMIDST THE DATA**
 Boris P. Hejblum, Daniel Commenges, Chariff Alkhasim, Raphael Gottardo, François Caron, **Rodolphe Thiébaud**
- 319 MACHINE LEARNING REVEALS T-CELL ACTIVATION PATHWAYS INDUCED BY INFLUENZA VACCINE**
 Megan Cole, Zainab Saeed, Amber Shaw, Yanping Guo, Katja Hoschler, Alan Winston, Graham S. Cooke, Sarah Fidler, Graham P. Taylor, **Katrina Pollock**
- 320 COMPARATIVE ANALYSIS OF THE MAGNITUDE AND QUALITY OF VACCINE-ELICITED T-CELL RESPONSE**
Bianca Schulte, Franco Pissani, Michael A. Eller, Bruce T. Schultz, Mary Marovich, Prasert Thongcharoen, Somchai Sriplienchan, Supachai Rerk-Ngarm, Punnee Pitisutthithum, Stefan Esser, Galit Alter, Merlin L. Robb, Jerome H. Kim, Nelson L. Michael, Hendrik Streeck
- 321 REGULATORY T CELLS IN HIV-INFECTED PREGNANT WOMEN**
Katelyn J. Rittenhouse, Humphrey Mwape, John Mwale, Gabriel Chipili, Joan T. Price, Bellington Vwalika, Kristina De Paris, Elizabeth M. Stringer, Jeffrey S. Stringer
- 322 THE IMPACT OF HIV EXPOSURE ON PLACENTAL PATHOLOGY AND TREG CELLS**
Nadia M. Ikumi, Nonzwakazi Bangani, Michelle Barboure, Berenice Alinde, Bryan Gascon, Lizette Fick, Komala Pillay, Landon Myer, Thoko Malaba, Mohammed Lamorde, Saye Khoo, Heather Jaspán, Clive M. Gray
- 323 HIV RESERVOIR SIZE IS CORRELATED TO NK-MEDIATED KILLING OF EFFECTOR MEMORY CD4 CELLS**
Antonio Astorga Gamaza, Judith Grau-Expósito, Laura Luque-Ballesteros, Ariadna Torrella, Bibiana Planas, Rosa Badía, Esteban Ribera, Joaquin Burgos, Jordi Navarro, Adrià Curran, Vicenç Falcó, María J. Buzón

324 LIGATION OF KIR3DS1 BY HLA-F ON ICD4 ACTIVATES PRIMARY NK CELLS FOR ANTI-HIV ACTIVITY

Zahra Kiani, Julie Bruneau, Daniel E. Geraghty, Nicole Bernard

325 IMPACT OF A NOVEL NATURAL KILLER CELL SUBSET ON IMMUNE RECONSTITUTION

Jaewon Lee, Robert C. Güerri-Fernández, Richard Pollard, David M. Asmuth, Sungjin Kim

Poster P-E04 HIV CURATIVE APPROACHES: ANIMAL MODELS

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351 TRIFUNCTIONAL T-CELL ENGAGERS TARGETING PD-1 AND TIGIT IN CHRONIC HIV/SHIV INFECTIONS

Wanwisa Promsote, David R. Ambrozak, Catherine Liu, Megan Demouth, Cassandra Almasri, Michelle Cully, Jason M. Hataye, Amarendra Pegu, John R. Mascola, Richard A. Koup

352 IMPACT OF RAPAMYCIN ON SIV PERSISTENCE IN RHESUS MACAQUES ON ANTIRETROVIRAL THERAPY

Benjamin Varco-Merth, William B. Brantley, Richard Lum, Alejandra Marenco, Derick M. Duell, Walter Flores, Kathleen Engelman, Haesun M. Park, Jeremy Smedley, Michael K. Axthelm, Jeffrey D. Lifson, Louis J. Picker, Cheryl Cameron, Timothy J. Henrich, Afam Okoye

353 COMBINATION OF CRISPR AND LASER ART PREVENTS HIV REBOUND IN HUMANIZED MICE

Kamel Khalili, Howard E. Gendelman

354 A HUMANIZED MOUSE MODEL FOR EVALUATION OF AUTOLOGOUS HIV-SPECIFIC T-CELL THERAPIES

Chase McCann, Elizabeth A. Zale, Adam R. Ward, Shabnum Patel, Catherine M. Bollard, R. Brad Jones

355 DIFFERENTIAL EFFECTS OF IL-15 TREATMENT DELIVERED BY DIFFERENT ROUTES IN MACAQUES

Antonio Valentin, Dionysios C. Watson, Hrishikesh Pandit, Cristina Bergamaschi, Santhi Devasundaram, Sotirios Fortis, Barbara K. Felber, George N. Pavlakis

259 HEU HAVE INCREASED PROPORTIONS OF TREG ASSOCIATED WITH DECREASED T-CELL FUNCTIONALITY

Emilie Jalbert, Kayla M. Williamson, Miranda Kroehl, Michael J. Johnson, Marta Nunes, Clare Cutland, Shabir A. Madhi, Adriana Weinberg

Poster P-E05 HIV CURATIVE APPROACHES: ANTIBODIES AND CAR-T CELL

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356 GS-9722: FIRST-IN-CLASS EFFECTOR-ENHANCED BROADLY NEUTRALIZING ANTIBODY FOR HIV CURE

Nathan D. Thomsen, Mini Balakrishnan, Craig S. Pace, Xue Zhang, Magdeleine Hung, Mark R. Nagel, Brian A. Carr, Eric Hu, Helen Yu, George Stepan, Joshua Goldsmith, Bing Xia, Debi Jin, John A. Corbin, Romas Gelezianas

357 PASSIVE INFUSION OF FC-MODIFIED NAB DOES NOT AFFECT DYNAMICS OF PLASMA VIRUS DECAY

Mangaiarkarasi Asokan, Anna Maximova, Joana Dias, Andrew Crowley, Amarendra Pegu, Krisha McKee, Wei Shi, John-Paul Todd, Margaret Ackerman, Lucio Gama, Brandon F. Keele, Jeffrey Lifson, Alan S. Perelson, John R. Mascola, Richard A. Koup

358 RELATIONSHIPS BETWEEN NEUTRALIZATION, BINDING AND ADCC OF bNABs AGAINST RESERVOIR HIV

Yanqin Ren, Maria Korom, Ronald Truong, Dora Chan, Suzhan Huang, Colin Kovacs, Erika Benko, Jeffrey T. Safrit, John H. Lee, Hermes Garbán, Rebecca Lynch, R. Brad Jones

359 MULTISPECIFIC ANTI-HIV DUOCAR-T CELLS POTENTLY ELIMINATE bNAB-RESISTANT HIV IN VIVO

Kim Anthony-Gonda, Ariola Bardhi, Dimiter S. Dimitrov, Weizao Chen, Christina Ochsenbauer, John C. Kappes, Nina C. Flerin, Winfried Krueger, Dina Schneider, Rimas Orentas, Harris Goldstein, Boro Dropulic

360 LIMITATIONS OF HIV SPECIFIC CAR-T CELLS TO LYSE CELLS BEARING HIV IMMUNE COMPLEXES

Matthew T. Ollerton, Edward Berger, Gregory F. Burton, Elizabeth Connick

Poster P-E07 HIV LATENCY REVERSAL

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368 INDUCIBILITY OF LATENT HIV-1 IN RESTING CD4+ MEMORY T-CELL SUBSETS

Kyungyoon J. Kwon, Andrew Timmons, Srona Sengupta, Francesco R. Simonetti, Hao Zhang, Rebecca Hoh, Steven G. Deeks, Rafick-Pierre Sekaly, Janet Siliciano, Robert Siliciano

369 PKC AGONIST EXPOSURE SUFFICIENT TO ACTIVATE T CELLS IN VIVO ALSO CAUSES COAGULOPATHY

Chelsea Snyder, Alivelu Irrinki, Ryan McFadden, Jasmine Kaur, Bally Randhawa, Hoa Truong, Daniel Soohoo, Chad Greco, Dymtro Kornyejev, Eric Hu, Helen Yu, Bernard Murray, Leigh Ann Burns-Naas, Tomas Cihlar, Jeffrey Murry

370 ACTIVATION OF HIV-SPECIFIC CD8+ T CELLS FROM HIV+ DONORS BY VESATOLIMOD

Renee R. Ram, Tiffany Barnes, Paul Duatschek, Michael E. Abram, Romas Geleziunas, Joseph Hesselgesser, Christian Callebaut

371 DEBIO 1143 IS AN ATTRACTIVE HIV-1 LATENCY REVERSAL CANDIDATE

Michael Bobardt, Udayan Chatterji, Sumit Chanda, Susan J. Little, Norbert Wiedemann, Gregoire Vuagniaux, **Philippe Gallay**

372 HIV-1 PROVIRAL CLONE-SPECIFIC DIFFERENCES IN RESPONSE TO LATENCY REVERSING AGENTS

Edmond Atindaana, Erin T. Larragoite, Sarah Emery, Kalyani Pyaram, Cleo Burnett, Cheong-Hee Chang, Vicente Planelles, Jeffrey Kidd, Alice Telesnitsky

373 HIV-2 DYNAMICS DURING LATENCY REVERSAL

Fernanda Ferreira, Athe Tsibris, Daniel R. Kuritzkes

Poster P-E09 MECHANISMS OF PERSISTENCE

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380 RESIDUAL VIREMIA IS DOMINATED BY MONOTYPIC VIRUS RESULTING IN INFECTIOUS PLASMA VIRUS

Hadega Aamer, Jan McClure, Sherry McLaughlin, Sheila Styrchak, Daisy Ko, Janine Maenza, Ann Collier, James Mullins, Lisa Frenkel

- 381 PD-1/PD-L1 INTERACTION REGULATES HIV TRANSCRIPTION IN LYMPH NODES OF TREATED SUBJECTS**
Riddhima Banga, Caterina Rebecchini, Francesco Procopio, Alessandra Noto, Olivia M. Monje, Craig Fenwick, Matthias Cavassini, Jean-Marc Corpataux, Laurence de Leval, Giuseppe Pantaleo, Matthieu Perreau
- 382 CELLULAR PROLIFERATION MAINTAINS GENETICALLY INTACT AND DEFECTIVE HIV-1 OVER TIME**
Bethany A. Horsburgh, Bonnie Hiener, John-Sebastian Eden, Eunok Lee, Timothy E. Schlub, Susanne von Stockenstrom, Lina Odevall, Jeffery Milush, Teri Liegler, Rebecca Hoh, Rémi Fromentin, Nicolas Chomont, Steven G. Deeks, Frederick M. Hecht, Sarah Palmer
- 383 INCREASED NUMBERS OF INTACT HIV SEQUENCES IN A4B7 T CELLS DURING ACUTE SEROCONVERSION**
Sofie L. Rutsaert, Pilar Garcia Broncano, Marie-Angélique D. De Scheerder, Basiel Cole, Mathias Lichterfeld, Linos Vandekerckhove
- 384 SEX AND OBESITY ARE ASSOCIATED WITH RESIDUAL VIREMIA IN ART-SUPPRESSED INDIVIDUALS**
Joshua C. Cyktor, Hanna Mar, Ann Collier, Evelyn Hogg, Catherine Godfrey, Joseph J. Eron, Ronald Bosch, Deborah McMahon, John W. Mellors, Rajesh T. Gandhi, for the A5321 Team
- 385 CD4+ T-CELL-SURFACE FUCOSYLATION DEFINES PERSISTENT HIV TRANSCRIPTION IN VIVO**
Florent Colomb, Leila B. Giron, Andrew V. Kossenkov, Emilie Battivelli, Emmanouil Papasavvas, Luis Montaner, Eric Verdin, Clovis S. Palmer, Mohamed Abdel-Mohsen
- 386 GALECTIN-9 MEDIATES HIV TRANSCRIPTION BY INDUCING TCR-DEPENDENT ERK SIGNALING**
Florent Colomb, Leila B. Giron, Thomas Premeaux, Toshiro Niki, Emmanouil Papasavvas, Luis Montaner, Lishomwa C. Ndhlovu, Mohamed Abdel-Mohsen
- 387 TNF SURFACE RECEPTORS RELATE TO SURVIVAL PATHWAY ACTIVATION IN HIV RESERVOIR CELLS**
Hsiao-Hsuan Kuo, Stephane Hua, Ce Gao, Shivaali Maddali, Xu G. Yu, Mathias Lichterfeld
- 388 HIV PROVIRAL DNA METHYLATION IN SEROCONVERTERS, CONTROLLERS, AND ART-TREATED PATIENTS**
Sam Kint, Sabine Kinloch-de Loes, Wim Van Crielinge, Linos Vandekerckhove

Poster P-F4 CNS RESERVOIRS, ESCAPE, AND IMMUNOLOGY

Poster Hall - 4EF

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- 446 NEUROSYPOMATIC HIV CSF ESCAPE CAN BE PRODUCED BY REPLICATION IN T CELLS IN THE CNS**
Laura P. Kincer, Magnus Gisslén, Serena S. Spudich, Mattia Trunfio, Andrea Calcagno, Cinque Paola, Ronald Swanstrom, Richard W. Price, Sarah B. Joseph
- 447 RELAPSE OF SYMPTOMATIC CSF HIV ESCAPE UPON PREVIOUSLY OPTIMIZED cART REGIMEN CHANGES**
 Francesca Ferretti, Valentina De Zan, **Filippo Turrini**, Enzo Boeri, Simonetta Gerevini, Nicola Gianotti, Hamid Hasson, Adriano Lazzarin, Cinque Paola

- 448 CNS ESCAPE OF DRUG-RESISTANT HIV IN PML-IRIS AND CONSEQUENT PERIPHERAL DISSEMINATION**
Andrea Lisco, Camille Lange, Bryan Smith, Maura Manion, Natalie Lindo, Dima A. Hammoud, Catherine A. Rehm, Alice K. Pau, Safia S. Kuriakose, Megan Anderson, Pawel Muransky, Craig Sykes, Frank Maldarelli, Irini Sereti
- 449 DEEP SEQUENCING REVEALS EXTENSIVE CSF COMPARTMENTALIZATION IN HIV+ PEOPLE IN UGANDA**
Sarah B. Joseph, Deanna Saylor, Gertrude Nakigozi, Noeline Nakasujja, Kevin Robertson, Ronald H. Gray, Maria Wawer, Ronald Swanstrom, Ned Sacktor
- 450 MINIMAL INCIDENCE OF CSF ESCAPE AFTER INITIATION OF ART IN ACUTE HIV INFECTION**
Ryan C. Handoko, Phillip Chan, Linda Jagodzinski, Suteeraporn Pinyakorn, Nittaya Phanuphak, Carlo Saccalan, Eugène Kroon, Chutharat Munkong, Netsiri Dumrongpisutikul, Robert J. O'Connell, Robert Gramzinski, Victor Valcour, Jintanat Ananworanich, Serena S. Spudich, for the SEARCH 010/RV254 Study Team
- 451 TREATMENT REGIMENS FOR MANAGING SYMPTOMATIC CSF HIV ESCAPE IN PUNE, INDIA**
Ameet N. Dravid, Raviraj Gawali, Mahenderkumar Medisetty, Kartik Natarajan, Chinmay Saraf, Milind Kulkarni, Sachin Kore, Niranjan Rathod, Umakant Mahajan, Andrea Calcagno
- 452 PRESENCE OF INTACT HIV DNA VARIANTS IN THE BRAIN AND LYMPHOID TISSUES DURING ART**
Michelli Faria de Oliveira, Benjamin Murrell, Andrej Vitomirov, Thomas Vollbrecht, Venkatesh Kumar, Nikesh Kumar, Ben Gouaux, David J. Moore, Alan F. Jarmusch, Fernando Vargas, Pieter Dorresteijn, Ronald J. Ellis, Davey M. Smith, Sara Gianella

Poster P-F5 NEUROIMAGING AND ASSOCIATED BIOMARKERS

Poster Hall - 4EF

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- 453 ASSOCIATION OF CEREBRAL SMALL VESSEL DISEASE WITH THE BRAIN IN HIV INDIVIDUALS**
 Ryan Sanford, Jeremy Strain, Mahsa Dadar, Josefina Maranzano, Nancy Mayo, Susan Scott, Lesley K. Fellows, **Beau Ances**, Louis Collins
- 454 1H MRS IDENTIFIES SUBCLINICAL NEURONAL INJURY DESPITE CHRONIC VIRAL SUPPRESSION**
 Lucette A. Cysique, Thomas Gates, Lauriane Juge, Gemma Howdle, Tory Johnson, Avindra Nath, Caroline Rae, **Bruce J. Brew**, for the CHIEF group
- 455 INFLAMMATORY PLASMA BIOMARKERS CORRELATE WITH DIFFUSION TENSOR IMAGING IN CHRONIC HIV**
Kevin C. Chang, Thomas Premeaux, Yann Cobigo, Benedetta Milanini, Joanna Hellmuth, Shireen Javandel, Lishomwa C. Ndhlovu, Robert Paul, Victor Valcour
- 456 WHITE MATTER HYPERINTENSITIES INCREASE AS A FUNCTION OF CVD RISK AND HIV DISEASE**
Minjie Wu, Shaolin Yang, Hoby Hetherington, Tae Kim, Jeffry Alger, Peter B. Barker, Todd B. Parrish, Andrew Levine, Eileen Martin, Cynthia Munro, Ann B. Ragin, Ned W. Sacktor, Eric C. Seaberg, James T. Becker, for the Neuropsychology Working Group of the Multicenter AIDS Cohort Study

457 RESTING-STATE CONNECTIVITY ASSOCIATES WITH DEPRESSION SYMPTOMS IN ACUTE HIV

Carissa L. Philippi, Leah Reyna, Phillip Chan, Nittaya Phanuphak, Nisakorn Ratnaratorn, Joanna Hellmuth, Khunthalee Benjapornpong, Netsiri Dumrongpisutikul, Mantana Pothisri, Jintanat Ananworanich, Serena S. Spudich, Victor Valcour, Robert Paul, for the SEARCH 010/RV254 and RV304/SEARCH 013 study teams

458 LOWER FRONTAL GREY-MATTER BRAIN VOLUMES AND BASAL-GANGLIA ENLARGMENT IN PERINATAL HIV

Beatriz Ruiz-Saez, Manuela Martín-Bejarano, Ana Martínez de Aragon, Pablo Rojo Conejo, Talía Sainz, Alberto Alvarez, José Tomás Ramos, Sara Guillen, Dolores Falcón, Mario Gil-Correa, Pilar Fernández, Santiago Jimenez de Ory, María Luisa Navarro, María Isabel González-Tomé, for the NeuroCoRISpe

459 BENEFICIAL EFFECTS OF CANNABIS ON BLOOD-BRAIN BARRIER AND INFLAMMATION IN HIV

Ronald J. Ellis, Jennifer Iudicello, Erin Morgan, Brook Henry, Rachel Schrier, Mariana Cherner, Martin Hoenigl, Scott L. Letendre, for the Translational Methamphetamine Research Center

460 PBR-PET IMAGING OF NEUROINFLAMMATION NOT ELEVATED IN HIV+ PARTICIPANTS

Anna Boerwinkle, Jeremy Strain, John Doyle, Sarah A. Cooley, Jon Christensen, Yi Su, Julie Wisch, Beau Ances

Poster P-G3 ARV PHARMACOLOGY IN COMPARTMENTS AND RESERVOIRS

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474 BICTEGRAVIR CONCENTRATIONS AND VIRAL SUPPRESSION IN CSF HIV-INFECTED PATIENTS

Juan M. Tiraboschi, Arkaitz Imaz, Saye Khoo, Jordi Niubo, Paula Prieto, Maria Saumoy, Suján Dilly Penchala, Benito Garcia, Cristina Padilla, Daniel Podzamczar

475 WHICH PRECLINICAL SPECIES MIMICS TISSUE PENETRATION OF ARV DRUGS IN HUMANS?

Jason R. Pirone, Ramesh K. Akkina, J. V. Garcia-Martinez, Paul Luciw, Lourdes Adamson, Craig Sykes, Nicole White, Amanda Schauer, Kimberly H. Blake, Erin M. Burgunder, Aaron S. Devanathan, Nithya Srinivas, Elias Rosen, Angela Kashuba

476 ANTIRETROVIRALS CONCENTRATIONS IN THE OLFACTORY MUCOSA OF HIV-POSITIVE PATIENTS

Andrea Calcagno, Amedeo De Nicolò, Mattia Trunfio, Tiziano Allice, Daniele Imperiale, Claudia Bartoli, Valeria Ghisetti, Maria Enrica Amasio, Antonio D'Avolio, Giovanni Di Perri, Stefano Bonora

477 INFLUENCE OF TENOFOVIR-MONOESTER AND TENOFOVIR ON INTRACELLULAR TENOFOVIR-DIPHOSPHATE

Kristina M. Brooks, Mustafa E. Ibrahim, Jose R. Castillo-Mancilla, Samantha MaWhinney, Cricket McHugh, Lane R. Bushman, Jennifer J. Kiser, Sybil Hosek, Gregory D. Huhn, Peter L. Anderson

478 DEPO-MEDROXYPROGESTERONE EFFECTS ON TENOFOVIR-DP AND LAMIVUDINE-TP IN CERVICAL TISSUE

Melanie Nicol, Prosperity Eneh, Rita Nakalega, Samuel Kabwigu, Esther Isingel, Noah Kiwanuka, Mags Beksinska, Craig Sykes, Mary G. Fowler, Todd T. Brown, Flavia K. Matovu

- 479 A QUANTITATIVE APPROACH TO EVALUATE ARV PROXIMITY TO VIRUS AND CELLS IN LYMPH NODES**
Elias Rosen, Claire Deleage, Yuri Fedoriw, Jacob D. Estes, Angela Kashuba

Poster P-H1 NOVEL ANTIRETROVIRAL AGENTS AND FORMULATIONS
Poster Hall - 4EF **2:30 PM - 4:00 PM**

- 480 GS-6207, A POTENT AND SELECTIVE FIRST-IN-CLASS LONG-ACTING HIV-1 CAPSID INHIBITOR**
Stephen R. Yant, Andrew Mulato, George Stepan, Armando G. Villasenor, Debi Jin, Nicolas A. Margot, Shekeba Ahmadyar, Renee R. Ram, John R. Somoza, Eric Singer, Melanie Wong, Yili Xu, John O. Link, Tomas Cihlar, Winston C. Tse
- 481 MK-8591 POTENCY AND PK PROVIDE HIGH INHIBITORY QUOTIENTS AT LOW DOSES QD AND QW**
Jay Grobler, Kerry Fillgrove, Daria Hazuda, Qian Huang, Ming-Tain Lai, Randolph P. Matthews, Deanne J. Rudd, Ryan Vargo
- 482 FAVOURABLE OUTCOME OF IN VITRO SELECTIONS WITH NOVEL NRTI PRODRUG GS-9131**
Ruxandra-Ilinca Ibanescu, Maureen Oliveira, Bonnie Spira, Jean-Pierre Routy, **Bluma G. Brenner**, for the Montreal Primary HIV (PHI) Cohort Study Group
- 483 LONG-TERM SAFETY & EFFICACY OF FOSTEMSAVIR IN TREATMENT-EXPERIENCED HIV PARTICIPANTS**
Melanie Thompson, Fernando Mendo Urbina, Gulam Latiff, Sandra Trevino Perez, Edwin DeJesus, Natalia Zakharova, Marcelo Martins, Johannes Bogner, Li Yi, Amy Pierce, Shiven Chabria, Peter Ackerman, Cyril Llamoso, Max Lataillade, for the 205889 Investigative Study Team
- 484 ACTIVITY OF ECD4-IG AGAINST CCR5 ANTAGONIST-RESISTANT HIV-1**
Zixin Hu, Phillip Tomezsko, Matthew Gardner, Michael Farzan, Athe Tsibris, Daniel R. Kuritzkes
- 485 IBALIZUMAB: WEEK 96 DATA**
Brinda Emu, Jay Lalezari, Princy Kumar, Steven Weinheimer, Stanley Lewis, Brandon Cash, Zvi Cohen
- 486 PRO 140 SC: LONG-ACTING, SINGLE-AGENT MAINTENANCE THERAPY FOR HIV-1 INFECTION**
Kush Dhody, Kazem Kazempour, Nader Pourhassan, Paul J. Maddon
- 487 IN SILICO SIMULATION OF LONG-ACTING TENOFOVIR ALAFENAMIDE SUBCUTANEOUS IMPLANT**
Rajith Kumar Reddy Rajoli, Zach Demkovich, Ariane van der Straten, Charles W. Flexner, Andrew Owen, Marco Siccardi
- 488 LONG-ACTING EMTRICITABINE PRODRUGS PROVIDE PROTECTION FROM HIV INFECTION IN VIVO**
Paul Curley, James J. Hobson, Neill Liptrott, Amer Al-Khouja, David Meyers, Caren Freel Meyers, Charles W. Flexner, Marco Siccardi, Steve Rannard, Larisa Y. Poluektova, Andrew Owen
- 489 PRODRUGS EXTEND THE HALF LIFE AND POTENCY OF CABOTEGRAVIR**
Tanmay A. Kulkarni, Aditya N. Bade, Brady J. Sillman, Bhagya Dyavar Shetty, Melinda Wojtkiewicz, JoEllyn McMillan, Benson Edagwa, Howard E. Gendelman

Poster P-H2 IT TAKES TWO BABY(?): TWO DRUG ART**Poster Hall - 4EF****2:30 PM - 4:00 PM****490 HIV REPLICATION AT <40C/ML FOR DTG+3TC VS DTG+TDF/FTC IN THE GEMINI 1 & 2 STUDIES**

Mark Underwood, Rimgaile Urbaityte, Choy Man, Jörg Sievers, Ruolan Wang, Brian Wynne, Allan-Raymond Tenorio, Alexander Currie, Keith Pappa, Justin Koteff, Martin Gartland, Michael Aboud

491 RESIDUAL HIV-1 RNA, HIV-1 DNA, AND DRUG PLASMA CMIN IN DUAL DTG+3TC, ANRS 167 LAMIDOL

Charlotte Charpentier, Gilles Peytavin, Charles Burdet, Roland Landman, Minh Le, Christine Katlama, Gilles Collin, Aida Benalycherif, André Cabié, France Mentré, Yazdan Yazdanpanah, Diane Descamps, Veronique Joly, for the LAMIDOL study group

492 IMPACT OF DUAL THERAPY ON THE CD4/CD8 RATIO IS SIMILAR TO TRIPLE THERAPY AT 48 WEEKS

María I. Figueroa, Antonio Camiro-Zuñiga, Juan Sierra Madero, Jaime Andrade Villanueva, Jose R. Arribas, Javier R. Lama, Diego M. Cecchini, Gustavo Lopardo, Brenda Crabtree-Ramírez, Pablo F. Belaunzaran-Zamudio, Patricia Patterson, Valeria I. Fink, Omar G. Sued, Pedro Cahn, for the GARDEL-ANDES study group

493 FACTORS ASSOCIATED WITH THERAPEUTIC FAILURE OF 2-DRUG REGIMENS, DAT/AIDS COHORT

Clotilde Allavena, Colin Deschanvres, Gilles Peytavin, David Rey, Marc-Antoine Valantin, Firouze Bani-Sadr, Olivier Robineau, Claudine Duvivier, André Cabié, Laurent Hocqueloux, Lise Cuzin, Veronique Joly, Antoine Chéret, Jacques Reynes, for the Dat/AIDS

494 EFFECTS OF ART SIMPLIFICATION IN THE SPANISH AIDS RESEARCH NETWORK, CORIS

Sergio Serrano-Villar, Inma Jarrin, Pompeyo Viciano, Federico Pulido, Francesc Vidal, Enrique Bernal, Carlos Galera, Santiago Moreno, for the CoRIS

Poster P-J1 HIV DIAGNOSTICS: IT'S FOR THE VIRUS, STUPID**Poster Hall - 4EF****2:30 PM - 4:00 PM****554 SPECIFICITY OF 4 POINT-OF-CARE RAPID HIV TESTS IN A SETTING WITH HIGH PrEP USE**

Pollyanna R. Chavez, Laura Wesolowski, Lauren Violette, Lisa Niemann, Vanessa M. McMahan, Andy M. Cornelius-Hudson, David A. Katz, Steven Ethridge, **Joanne Stekler**, Kevin P. Delaney

555 PERFORMANCE OF HIV DIAGNOSTIC ALGORITHMS IN THE PRESENCE OF VACCINE-INDUCED IMMUNITY

Frank Msafiri, Alice Manjate, Sarah Lindroth, Said Aboud, Eligius Lyamuya, Sören Andersson, Charlotta Nilsson

556 DIFFERENTIATION CAPABILITY OF THE GEENIUS ASSAY FOR HIV-2 AND HIV-1/2 DUAL INFECTIONS

Ming Chang, Eugene Deng, Jose Ortega, Dana Raugi, Babacar Faya, Fatou Kine Simal, Samba Cisse, Khadim Faye, Robert A. Smith, Moussa Seydi, Geoffrey S. Gottlieb, Robert Coombs

557 HIV-1 RNA DETECTION BY ABBOTT M2000 CORRELATES WITH INTEGRASE SINGLE-COPY ASSAY

Melissa A. Tosiano, Hanna Mar, Joshua C. Cyktor, Dianna L. Koontz, Joseph J. Eron, Rajesh T. Gandhi, Deborah McMahon, Ronald Bosch, John W. Mellors, for the ACTG A5321 Team

- 558 REPLICATE APTIMA ASSAY FOR QUANTIFYING RESIDUAL PLASMA VIREMIA IN INDIVIDUALS ON ART**
Sonia Bakkour, Xutao Deng, Peter Bacchetti, Mars Stone, Andrew Worlock, Scott Hauenstein, Steven G. Deeks, Michael P. Busch, for the RAVEN Program
- 559 THE USE OF EXTERNAL QUALITY-ASSURANCE DATA TO COMPARE HIV-1 RNA ASSAY PERFORMANCE**
Cheryl Jennings, Daniel J. Zaccaro, Amy Couzens, Salvatore R. Scianna, Donald J. Brambilla, James W. Bremer

Poster P-K5 HIV AND HBV INFECTION

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- 619 A DECISION-TREE ANALYSIS FOR HEPATITIS A IMMUNITY AMONG HIV-INFECTED MSM IN TOKYO**
Tomohiko Koibuchi, Michiko Koga, Tadashi Kikuchi, Lay Ahyoung Lim, Hidenori Sato, Eisuke Adachi, Takeya Tsutsumi, Hiroshi Yotsuyanagi
- 620 LOW IMMUNE RESPONSE RATE OF HIV-POSITIVE PATIENTS TO SINGLE INJECTION OF HAV VACCINE**
 Lucie Noel, Marc-Antoine Valantin, Marc Wirden, Sophie Sayon, Christine Blanc, Roland Tubiana, Christine Katlama, **Anne-Geneviève Marcelin**, Vincent Calvez, Eve Todesco
- 621 LOSS OF HEPATITIS A VIRUS SEROPROTECTION IN PERSONS LIVING WITH HIV**
Rishi Chanderraj, Mark Cichocki, Tejal Gandhi, James Riddell
- 622 HBV REVACCINATION AMONG HIV-POSITIVE MSM RECEIVING HAART: A RANDOMIZED CLINICAL TRIAL**
Yi-Chia Huang, Wen-Chun Liu, Yi-Ching Su, Hsin-Yun Sun, Sui-Yuan Chang, Chien-Ching Hung
- 623 THE GLOBAL DISTRIBUTION OF HEPATITIS B VIRUS VACCINE ESCAPE MUTATIONS**
 Mahad T. Raheel, Wonderful T. Choga, **Jason T. Blackard**

Poster P-K6 HIV AND HBV: BAD (LIVER) BEDFELLOWS

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- 624 HEPATITIS B CURE IN HIV PATIENTS IS MORE LIKELY IN HISPANICS AND THOSE WITH AIDS**
Mamta K. Jain, Paul Parisot, Gabriella Go, Trung T. Vu, Karen J. Vigil, Barbara S. Taylor
- 625 HIGH RATES OF HBV FUNCTIONAL CURE AMONG HIV/HBV-COINFECTED PATIENTS ON ART IN ZAMBIA**
Belinda V. Chihota, Gilles Wandeler, Roma Chilengi, Lloyd Mulenga, Raymond T. Chung, Debika Bhattacharya, Matthias Egger, Michael J. Vinikoor, for the leDEA Southern Africa
- 626 HEPATITIS B VIROLOGIC FAILURE OF TENOFOVIR-BASED THERAPIES IN PATIENTS WITH HIV/HBV**
 Helen L. Zhang, **Meredith Mock**, Lane R. Bushman, Peter L. Anderson, Andrew J. Muir, Jennifer J. Kiser, Susanna Naggie
- 627 HIV LATE PRESENTATION AND ITS IMPACT ON HBV SEROCONVERSION IN HBV/HIV**
Christoph Boesecke, Christian Hoffmann, Stefan Mauss, Thomas Lutz, Patrick Ingiliz, Christoph D. Spinner, Stefan H. Scholten, Florian Berger, Stephan Schneeweiss, Fabian Busch, Clara Lehmann, Gerd Fätkenheuer, Jürgen K. Rockstroh, for the DZIF HBV HIV Cohort

- 628 ABSENCE OF HBV REACTIVATION IN HIV/HCV/HBCAB COINFECTED PATIENTS TREATED WITH DAA**
Maddalena Cerrone, Francesca Ferretti, Ryan Whyte, Mimie Chirwa, Mark Nelson
- 629 HEPATITIS B VIRUS DNA LEVEL CHANGES IN HBEAG+ PREGNANT WOMEN RECEIVING TDF FOR PMTCT**
Nicole Ngo-Giang-Huong, Nicolas Salvadori, Woottichai Khamduang, Tim R. Cressey, Linda J. Harrison, Luc Decker, Camlin Tierney, Jullapong Achalapong, Trudy V. Murphy, Noele Nelson, George K. Siberry, Raymond T. Chung, Stanislas Pol, Gonzague Jourdain, for the iTAP study group
- 630 A LONG-ACTING 3TC NANOFORMULATION SUPPRESSES HBV REPLICATION IN HUMANIZED MICE**
Nathan Smith, Weimin Wang, Edward Makarov, Yimin Sun, Catherine L. Gebhart, JoEllyn McMillan, Howard E. Gendelman, Larisa Y. Poluektova, Benson Edagwa

Poster P-M6 HEART FAILURE AND PULMONARY DISEASE

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- 658 TRANSCRIPTOMIC BIOMARKERS OF HEART FAILURE IN PEOPLE LIVING WITH HIV**
 Cheryl Cameron, Chris T. Longenecker, Brian Richardson, Michael Fang, Jonathan Buggiey, Sadeer Al-Kindi, Michael Cartwright, Carmen Nichols, Pearlina Cartwright, Jackelyn Golden, **Mark Cameron**
- 659 HIV/HCV-SPECIFIC MARKERS AND ECHOCARDIOGRAPHIC PULMONARY ARTERY SYSTOLIC PRESSURE**
Courtney Zola, Meredith S. Duncan, Kaku So-Armah, Kristina Crothers, Adeel A. Butt, Cynthia L. Gibert, Joon W. Kim, Joseph Lim, Vincent Lo Re, Hilary A. Tindle, Matthew Freiberg, Evan L. Brittain
- 660 EVIDENCE OF PRECLINICAL MYOCARDIAL FIBROSIS IN ART-TREATED PLWH IN SOUTH AFRICA**
Lye-Yeng Wong, Tess Peterson, Julian Wolfson, Justin A. Lumbamba, Stephen Jermy, Hadil Saad, Scott Shuldiner, Muki Shey, Graeme Meintjes, Ntobeko Ntusi, Mpiko Ntsekhe, Jason V. Baker
- 661 HIV IS ASSOCIATED WITH LUNG-FUNCTION IMPAIRMENT IN THE MULTICENTER AIDS COHORT STUDY**
Ken M. Kunisaki, Seyed M. Nouraie, Robert Jensen, Dong Chang, Gypsyamber D'Souza, Meghan E. Fitzpatrick, Meredith C. McCormack, Valentina Stosor, Alison Morris, for the MACS Pulmonary Substudy Group
- 662 LB HIV IS NOT ASSOCIATED WITH SLEEP-DISORDERED BREATHING**
Ken M. Kunisaki, Davide De Francesco, Caroline Sabin, Alan Winston, Patrick W. Mallon, Jane Anderson, Marta Boffito, Lewis Haddow, Frank Post, Jaime H. Vera, Wajahat Khalil, Susan Redline, for the Pharmacokinetics and Clinical Observations in People Over Fifty (POPPY) Study Group

Poster P-M7 CARDIOVASCULAR DISEASE: MORTALITY, RISK FACTORS, AND MANAGEMENT STRATEGIES

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- 663 SEX-SPECIFIC PATTERNS IN HIV-ASSOCIATED CARDIOVASCULAR MORTALITY IN NEW YORK CITY**
David B. Hanna, Chitra Ramaswamy, Robert C. Kaplan, Jorge R. Kizer, Demetre C. Daskalakis, Kathryn Anastos, Sarah L. Braunstein

664 DIFFERENCES IN TYPES OF MYOCARDIAL INFARCTIONS AMONG PATIENTS AGING WITH HIV

Bridget M. Whitney, Robin M. Nance, Joseph Delaney, Susan Heckbert, Matthew Budoff, Kevin High, Alan Landay, Matthew Feinstein, Richard D. Moore, W. C. Mathews, Elvin Geng, Michael Saag, Mari Kitahata, **Heidi M. Crane**, for the Centers for AIDS Research Network of Clinical Information Systems^A

665 ALCOHOL USE AND RISK OF MYOCARDIAL INFARCTION (MI): DOES MI TYPE MATTER?

Robin M. Nance, Bridget M. Whitney, Matthew Budoff, Kristina Crothers, W. C. Mathews, Elvin Geng, Michelle Floris-Moore, Geetanjali Chander, Bryan Lau, Mary McCaul, Richard D. Moore, Matthew Feinstein, Mari Kitahata, Heidi M. Crane, for the Centers for AIDS Research Network of Clinical Information Systems

666 CARDIOVASCULAR RISK MANAGEMENT AMONG PLWH: DOES PROVIDER SPECIALTY MATTER?

Nwora L. Okeke, Katherine R. Schafer, Jan Ostermann, Ansal D. Shah, Susanna Naggie, Hayden B. Bosworth

667 INCREASED PREVALENCE OF PROLONGED QTC IN PERSONS LIVING WITH HIV COMPARED TO CONTROLS

Andreas D. Knudsen, Jonas B. Nielsen, Marco Gelpi, Jens D. Lundgren, Per E. Sigvardsen, Amanda Mocroft, Jørgen T. Kuhl, Andreas Fuchs, Børge Nordestgaard, Claus Graff, Lars Køber, Thomas Benfield, Klaus F. Kofoed, Susanne D. Nielsen, for the COCOMO study group

668 HYPERTENSION CONTROL IN INTEGRATED HIV/NCD CLINICS IN THE SEARCH STUDY

Dalsone Kwarisiima, Yusuf Mwinike, James Ayieko, Atukunda Mucunguzi, Winter Olilo, Laura B. Balzer, Gabriel Chamie, Tamara D. Clark, Vivek Jain, Edwin D. Charlebois, Craig R. Cohen, Elizabeth A. Bukusi, Moses R. Kanya, Diane V. Havlir, Lillian Brown

Poster P-N3 ADIPOSE TISSUE DENSITY AND BIOLOGY

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681 CHANGES IN FAT DENSITY AFTER ART INITIATION

Jordan E. Lake, Carlee Moser, Maxine Olefsky, Kristine M. Erlandson, Ann Scherzinger, James H. Stein, Judith S. Currier, Todd T. Brown, Grace A. McComsey

682 DUAL-ENERGY X-RAY ABSORPTIOMETRY (DXA) POORLY APPROXIMATES VISCERAL FAT IN HIV

Lindsay T. Fourman, Emma M. Kileel, Jane Hubbard, Tara Holmes, Ellen Anderson, Sara E. Looby, Kathleen V. Fitch, Meghan Feldpausch, Martin Torriani, Janet Lo, Takara L. Stanley, Steven K. Grinspoon

683 UNIQUE MIRNA SIGNATURE IN HIV LIPODYSTROPHY WITH REDUCED ADIPOSE DICER EXPRESSION

Suman Srinivasa, Ruben Garcia, Martin Torriani, Kathleen V. Fitch, Patrick Maehler, Meghan Feldpausch, Aaron M. Cypress, C. Ronald Kahn, Steven K. Grinspoon

Poster P-N7 BAD THINGS HAPPEN: HIV COMORBIDITIES

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696 ALOPECIA AFTER SWITCH TO TENOFOVIR ALAFENAMIDE IN 5 AFRICAN AMERICAN WOMEN

Said El Zein, **Jennifer Veltman**

- 697 IMPACT AND DETERMINANTS OF COMORBIDITY CLUSTERS IN PEOPLE LIVING WITH HIV**
Davide De Francesco, Sebastiaan Verboeket, Jonathan Underwood, Ferdinand Wit, Emmanouil Bagkeris, Patrick W. Mallon, Alan Winston, Peter Reiss, Caroline Sabin, for the POPPY study group
- 698 WIDESPREAD PAIN AND ASSOCIATIONS WITH HIV-RELATED FACTORS IN PEOPLE WITH HIV**
Caroline Sabin, Kennedy Nkhoma, Richard Harding, Adam Geressu, Emmanouil Bagkeris, Patrick W. Mallon, Frank Post, Memory Sachikonye, Marta Boffito, Jane Anderson, Jaime Vera-Rojas, Margaret Johnson, Ian Williams, Alan Winston, for the POPPY Study
- 699 MOOD DISORDERS & INCREASED RISK OF NONCOMMUNICABLE DISEASES IN ADULTS AGING WITH HIV**
Jessica L. Castilho, Peter F. Rebeiro, Bryan E. Shepherd, Cathy Jenkins, Robertson Nash, Rodney S. Adams, Megan M. Turner, Sally S. Furukawa, Todd Hulgán, John R. Koethe, Timothy R. Sterling
- 700 TREATMENT OF PSYCHIATRIC DISORDERS AND TIME WITH HIV VIRAL LOAD ≥ 200 COPIES/ML**
Matthew E. Levy, Anne K. Monroe, Michael A. Horberg, Debra A. Benator, Sherry Molock, Rupali K. Doshi, Lindsey Powers Happ, Amanda D. Castel, for the DC Cohort Executive Committee

Poster P-N8 FUNCTIONAL STATUS

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- 701 BLUNTED MUSCLE MITOCHONDRIAL RESPONSES TO EXERCISE TRAINING IN OLDER ADULTS WITH HIV**
Catherine M. Jankowski, Melissa P. Wilson, Samantha MaWhinney, Jane Reusch, Leslie Knaub, Kristine M. Erlandson
- 702 WEAK GRIP AND FRAILTY ARE ASSOCIATED WITH MTDNA HAPLOGROUP IN ADULTS WITH HIV**
Kristine M. Erlandson, Yuki Bradford, David C. Samuels, Todd T. Brown, Jing Sun, Kunling Wu, Katherine Tassiopoulos, Marylyn D. Ritchie, David Haas, Todd Hulgán, for the AIDS Clinical Trials Group
- 703 GLYCEMIC CONTROL AND COGNITION ARE INDEPENDENTLY ASSOCIATED WITH GAIT SPEED DECLINE**
Mary Clare Masters, Jeremiah Perez, Katherine Tassiopoulos, Adriana Andrade, Ronald J. Ellis, Jingyan Yang, Todd T. Brown, Frank J. Palella, Kristine M. Erlandson
- 704 SERIOUS INJURY AFTER A FALL: ARE THOSE WITH HIV AT GREATER RISK THAN UNINFECTED?**
Julie A. Womack, Christine Ramsey, Terrence E. Murphy, Harini Bathulapalli, Alexandria C. Smith, Cynthia L. Gibert, Maria Rodriguez-Barradas, Phyllis Tien, Michael T. Yin, Thomas M. Gill, Gary Friedlaender, Cynthia A. Brandt, Amy C. Justice

Poster P-P3 PHARMACOKINETICS IN PREGNANCY AND POSTPARTUM

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- 757 POPULATION PK OF DOLUTEGRAVIR IN PLASMA, CORD, AND BREASTMILK: RESULTS FROM DOLPHIN-1**
Laura Dickinson, Kenneth Kintu, Julie Anne Coombs, Alieu Amara, Christie Heiberg, Stephen I. Walimbwa, Yashna Singh, Shadia Nakalema, Laura Else, Landon Myer, Catriona Waitt, Mohammed Lamerde, Catherine Orrell, Saye Khoo, for the DolPHIN-1 Study Team

758 DOLUTEGRAVIR PHARMACOKINETICS DURING PREGNANCY AND POSTPARTUM

Angela Colbers, **Pauline Bollen**, Jolien Freriksen, Deborah Konopnicki, Katharina Weizsäcker, Carmen Hidalgo Tenorio, José Moltó, Graham P. Taylor, Irene Alba Alejandre, Reinout van Crevel, David M. Burger, for the PANNA

759 PREGNANCY ASSOCIATED WITH DECREASED SERUM ISONIAZID LEVELS IN WOMEN LIVING WITH HIV

Kamunhwala Gausi, Paolo Denti, Lubbe Wiesner, Carole Wallis, Carolyne Onyango-Makumbi, Tsungai Chipato, Gerhard Theron, Sarah Bradford, Diane Costello, Renee Browning, Nahida Chakhtoura, Adriana Weinberg, Grace Montepiedra, Amita Gupta, for the IMPAACT P1078 (TB APPRISE) Study Group Team

Poster P-P4 MATERNAL VIRAL SUPPRESSION AND TREATMENT OUTCOMES

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760 VIROLOGICAL RESPONSE OF RAL-BASED REGIMEN AMONG HIV-INFECTED PREGNANT WOMEN IN BRAZIL

Ana R. Pati Pascom, Mariana V. Meireles, Fernanda Rick, Filipe d. Perini, Fernanda F. Fonseca, Adele Benzaken

761 SEARCH INTERVENTION INCREASES VIRAL SUPPRESSION AMONG PREGNANT & POSTPARTUM WOMEN

Jane Kabami, Hachem Saddiki Saddiki, James Ayieko, Dalsone Kwarisiima, Atukunda Mucunguzi, Edwin D. Charlebois, Tamara D. Clark, Elizabeth A. Bukusi, Craig R. Cohen, Philippa Musoke, Maya L. Petersen, Diane V. Havlir, Moses R. Kamya, Laura B. Balzer, Gabriel Chamie

762 IDENTIFYING WOMEN LIVING WITH PERINATAL HIV INFECTION AT RISK OF POSTPARTUM VIREMIA

Brad Karalius, Claire Berman, Deborah Kacane, Anna-Barbara Moscicki, Mary Paul, Kathleen M. Powis, Katherine Tassiopoulos, Kunjal Patel

763 LONG-TERM OUTCOMES OF AN INTEGRATED MATERNAL AND CHILD HIV CARE TRIAL IN SOUTH AFRICA

Tamsin K. Phillips, Kirsty Brittain, Yolanda Gomba, Pheposadi Mogoba, Allison Zerbe, Elaine J. Abrams, Landon Myer

764 EVALUATION OF GUIDELINES FOR VL MONITORING IN PREGNANCY & BREASTFEEDING: A SIMULATION

Maia Lesosky, Janet M. Raboud, Tracy Glass, Sean S. Brummel, Andrea L. Ciaranello, Judith S. Currier, Shaffiq Essajee, Diane V. Havlir, Catherine A. Koss, Anthony Ogwu, Roger L. Shapiro, Elaine J. Abrams, Landon Myer

765 MOBILITY AND THE 1-YEAR POSTPARTUM MATERNAL MORTALITY IN HIV-POSITIVE PREGNANT WOMEN

Hae-Young Kim, Adrian Dobra, Frank Tanser

766 TENOFOVIR HAIR LEVELS RISE OVER THE POSTPARTUM PERIOD AND HIGHLY PREDICT VIRAL LOADS

Pamela M. Murnane, Peter Bacchetti, Judith S. Currier, Sean Brummel, Hideaki Okochi, Nhi Phung, Karen Kuncze, Risa M. Hoffman, Teacler Nematadzira, Dean Soko, Maxensia Owor, Friday Saidi, Patricia M. Flynn, Mary Glenn Fowler, Monica Gandhi

767 POSTPARTUM DEPRESSIVE SYMPTOMS IN WOMEN LIVING WITH HIV IN BOTSWANA

Keolebogile N. Mmasa, Kathleen M. Powis, Justine Legbedze, Samuel W. Kgole, Gosego Masasa, Shan Sun, Sikhulile Moyo, Joseph Makhema, Mompoti O. Mmalane, Patrick Zibochwa, Lynn M. Yee, Lisa B. Haddad, Elaine J. Abrams, Kathleen Malee, Jennifer Jao

Poster P-Q2 GROWING UP WITH HIV AND ARV EXPOSURES

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790 SURVIVING AND THRIVING? OUTCOMES OF HIV-EXPOSED CHILDREN IN RURAL ZIMBABWE

Ceri Evans, Bernard Chasekwa, Robert Ntozini, Florence D. Majo, Kuda Mutasa, Naume Tavengwa, Batsirai Mutasa, Mduduzi Mbuya, Rebecca J. Stoltzfus, Lawrence Moulton, Jean Humphrey, Andrew Prendergast, for the SHINE Trial Team

791 IMPACT OF IMPROVED NUTRITION/SANITATION ON STUNTING AND ANEMIA IN HIV-EXPOSED INFANTS

Bernard Chasekwa, Andrew Prendergast, Ceri Evans, Kuda Mutasa, Mduduzi Mbuya, Rebecca J. Stoltzfus, Laura Smith, Florence D. Majo, Naume Tavengwa, Batsirai Mutasa, Lawrence Moulton, Robert Ntozini, Jean Humphrey, for the SHINE Trial Team

792 EXTENDED PROPHYLAXIS WITH NEVIRAPINE DOES NOT AFFECT GROWTH IN HIV-EXPOSED INFANTS

Carolyn Onyango-Makumbi, Ramadhani Mwiru, Arthur Owora, Anthony Mwatha, Alicia Young, Dhayendre Moodley, Hoosen Coovadia, Lynda Stranix-Chibanda, Karim P. Manji, Yvonne Maldonado, Paul Richardson, Philip Andrew, Kathleen George, Wafaie Fawzi, Mary G. Fowler

793 GROWTH PATTERNS IN CHILDREN OF WOMEN WITH PERINATALLY VS NON-PERINATALLY ACQUIRED HIV

Wendy Yu, Denise Jacobson, Paige L. Williams, Kunjal Patel, Russell B. Van Dyke, Linda A. DiMeglio, Mitchell Geffner, Deborah Kacaneck, Jennifer Jao, for the Pediatric HIV/AIDS Cohort Study (PHACS)

794 POSTNATAL GROWTH IN CHILDREN EXPOSED OR UNEXPOSED TO HIV: A NATIONWIDE COHORT STUDY

Ellen Moseholm, Marie Helleberg, Terese L. Katzenstein, Merete Storgaard, Gitte Pedersen, Isik S. Johansen, Håkon Sandholdt, Nina Weis

795 IN UTERO HIV EXPOSURE IS LINKED TO OBESITY AND REACTIVE AIRWAY DISEASE IN ADOLESCENCE

Lindsay T. Fourman, Marisa E. Gerard, Chelsea S. Pan, Virginia Triant, Takara L. Stanley, Steven K. Grinspoon

Poster P-Q6 THE STATE OF THE MIND: GROWING UP WITH HIV

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819 YOUTH PSYCHIATRIC TRAJECTORIES PREDICT PERINATALLY HIV INFECTED YOUNG-ADULT VIREMIA

Nadia Nguyen, Chien-Wen J. Choi, Reuben Robbins, Curtis Dolezal, Cheng-Shiun Leu, Rehema Korich, Elaine J. Abrams, Andrew Wiznia, Claude A. Mellins

820 TRAJECTORY ANALYSIS OF COGNITIVE OUTCOMES IN CHILDREN WITH PERINATAL HIV

Payal Patel, Tanakorn Apornpong, Stephen J. Kerr, Thanyawee Puthanakit, Kulvadee Thongpibul, Pope Kosalaraksa, Pradthana Ounchanum, Suparat Kanjanavanit, Ly Penh Sun, Saphonn Vonthanak, Serena S. Spudich, Jintanat Ananworanich, Robert Paul, for the PREDICT/Resilience Study Group

- 821 FOCUSED COGNITIVE FUNCTION TESTING IN YOUNG PEOPLE WITH PERINATAL HIV IN ENGLAND**
Alejandro Arenas-Pinto, Hannah Castro, Diane Melvin, Marthe Le Prevost, Caroline Foster, Kate Sturgeon, Alan Winston, Lindsay Thompson, Diana Gibb, Ali Judd, for the Adolescents and Adults Living with Perinatal HIV (AALPHI) Steering Committee
- 822 SYSTEMIC INFLAMMATION AND STRUCTURAL BRAIN CHANGES IN PERINATALLY HIV+ ADOLESCENTS**
Jackie Hoare, Landon Myer, Sarah Heany, JP Fouché, Nicole Phillips, Heather Zar, Dan Stein
- 823 GENOMICS LINKS AUTOPHAGY WITH NEUROCOGNITIVE IMPAIRMENT IN HIV-INFECTED CHILDREN**
Stephen A. Spector, Sean S. Brummel, Kumud K. Singh, Jihoon Kim, Kelly Frazer, Sharon Nichols, Olivier Harismendy, George R. Seage, Paige L. Williams, Russell B. Van Dyke, Rodney Trout

Poster P-Q7 ANTIRETROVIRAL PHARMACOKINETICS, SAFETY, AND EFFICACY IN CHILDREN AND YOUTH

Poster Hall - 4EF

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- 824 HIGH PRESCRIPTION ERROR RATES AMONG CHILDREN ON ANTIRETROVIRAL THERAPY IN KENYA**
Irene Mukui, Samuel M. Mwalili, Barbra A. Richardson, Elizabeth A. Bukusi, Carey Farquhar
- 825 EFFECT OF ANTITUBERCULOSIS THERAPY ON NEVIRAPINE PHARMACOKINETICS IN YOUNG CHILDREN**
Awewura Kwara, Anthony Enimil, Hongmei Yang, Fizza S. Gillani, Wael A. Alghamdi, Antoinette Ortsin, Albert Dompok, Lubbe Wiesner, Charles A. Peloquin, Sampson Antwi
- 826 SAFETY AND EFFICACY OF STARTING ANTIRETROVIRAL THERAPY IN THE FIRST WEEK OF LIFE**
Roger L. Shapiro, Kara Bennett, Michael D. Hughes, Kenneth Maswabi, Gbolahan Ajibola, Sikhulile Moyo, Patrick Jean-Philippe, Edmund V. Capparelli, Terence Mohammed, Oganne Batlang, Shahin Lockman, Max Essex, Joseph Makhema, Mathias Lichtenfeld, Daniel R. Kuritzkes
- 827 IN SILICO PREDICTION OF DOLUTEGRAVIR PHARMACOKINETICS & DOSE OPTIMISATION IN NEONATES**
Fazila S. Bunglawala, Rajith Kumar Reddy Rajoli, Andrew Owen, Marco Siccardi
- 828 SIMILAR EFFICACY AND SAFETY OF DOLUTEGRAVIR BETWEEN AGE GROUPS OF PEDIATRIC PATIENTS**
Pierre Frange, Veronique Avettand-Fenoel, Florence Veber, Stephane Blanche
- 829 LB PK AND 4-WEEK OUTCOMES OF DOLUTEGRAVIR DISPERSIBLE TABLETS IN HIV-INFECTED CHILDREN**
Theodore Ruel, Edward P. Acosta, Rajendra P. Singh, Carmelita Alvero, Kathleen George, Stephanie Popson, Mattie Bartlett, Ann Buchanan, Cindy Brothers, Lucy Koech, Tichaona Vhembo, Rohan Hazra, Ellen Townley, Andrew Wiznia, for the IMPAACT P1093 Team
- 830 LB ADULT DOLUTEGRAVIR 50MG TABLETS IN CHILDREN LIVING WITH HIV WEIGHING 20 TO <25KG**
Pauline Bollen, Anna Turkova, Hilda Mujuru, Elizabeth Kaudha, Abbas Lagemwa, Pauline Amuge, Angela Colbers, Cecilia Moore, Anna Parker, Victor Musiime, James G. Hakim, Deborah Ford, Diana Gibb, David M. Burger, for the ODYSSEY trial team

Poster P-R5 EPIDEMIOLOGY OF TREATMENT AND SURVIVAL**Poster Hall - 4EF****2:30 PM - 4:00 PM**

- 894 SUCCESSFUL cART NORMALIZES SURVIVAL FOR HIV-HTLV COINFECTED PATIENTS**
Fernanda Miranda, Estela Luz, Eduardo M. Netto, **Carlos Brites**
- 895 RACIAL DISPARITIES IN BASELINE GENOTYPING IN THE ERA OF "ART FOR ALL"**
Sasinya Scott, Lisa A. Forgione, Lucia V. Torian
- 896 YIELD OF HIV TESTING AND RE-ENGAGEMENT OF KEY POPULATIONS IN UGANDA AND KENYA**
Gabriel Chamie, Norton Sang, Dalsone Kwarisiima, Jane Kabami, Kevin Kadede, Irene Bagala, Atukunda Mucunguzi, Tamara D. Clark, Laura B. Balzer, Edwin D. Charlebois, Craig R. Cohen, Elizabeth A. Bukusi, Maya L. Petersen, Diane V. Havlir, Moses R. Kamya
- 897 ED VISITS AND HOSPITALIZATIONS AS OPPORTUNITIES TO IMPROVE HIV CARE ENGAGEMENT**
Tigran Avoundjian, Matthew R. Golden, Meena Ramchandani, Julia C. Dombrowski
- 898 POVERTY STIGMA AND HIV TREATMENT OUTCOMES AMONG WOMEN LIVING WITH HIV IN THE US**
Anna M. Leddy, Janet M. Turan, Mallory Johnson, Torsten B. Neilands, Mirjam-Colette Kempf, Deborah Konkle-Parker, Gina Wingood, Phyllis Tien, Tracey Wilson, Carmen H. Logie, **Sheri Weiser**, Bulent Turan
- 899 RISK FACTORS FOR INCREASED HOSPITAL LENGTH OF STAY AMONG PWH, 2014-2015**
Julia Fleming, Stephen Berry, W. C. Mathews, Judith Aberg, Laura W. Cheever, Richard D. Moore, Kelly Gebo, for the HIV Research Network
- 900 FIB-4 SCORE PREDICTS OVERALL MORTALITY IN HIV MONOINFECTED: A PROSPECTIVE STUDY**
Hugo Perazzo, Antonio G. Pacheco, Sandra W. Cardoso, Carolyn Yanavich, Ricardo Santos, Ursula B. Chaves, Mario Sergio Pereira, Ronaldo I. Moreira, Estevao P. Nunes, Valdilea Veloso, Beatriz Grinsztejn, for the GPC-HEPATOL
- 901 LONG-TERM EFFECTIVENESS OF HIV TREATMENT IN ZAMBIA**
Elvin Geng, Ingrid Eshun-Wilson, Kombatende Sikombe, Carolyn Bolton Moore, Sandra Simbeza, Paul Somwe, Nancy Padian, David Glidden, Izukanji Sikazwe, Charles B. Holmes
- 902 PREDICTORS OF LOSS OF VIRAL LOAD SUPPRESSION AMONG MSM IN ATLANTA**
Jeb Jones, Jennifer Taussig, Jodie L. Guest, Colleen F. Kelley, Patrick S. Sullivan
- 903 IMPACT OF HIV TEST-AND-TREAT INITIATIVE IN MIAMI-DADE COUNTY, FLORIDA**
Karalee Poschman, Emma C. Spencer, David Goldberg, Kira Villamizar, Tiffany Adams, Jeffrey Beal
- 904 ANTIRETROVIRAL REGIMEN DURABILITY IS NOT DRIVEN BY VIRAL FAILURE IN AN AFRICAN COHORT**
Christina Polyak, Allahna L. Esber, Francis Kiweewa, Jonah Jonah Maswai, John Owuoth, Lucas Maganga, Emmanuel Bahemana, Yakubu Adamu, Patrick Hickey, Peter Coakley, Anne K. Monroe, Amanda D. Castel, Alan Greenberg, Trevor A. Crowell, Julie Ake

- 905 RESUPPRESSION IN 1ST-LINE ART PATIENTS KENYA: DOES ART LONGEVITY AFFECT RESUPPRESSION?**
Christabel Orera Bodo, Kariithi Edward, Osiemo Dennis, Crandall Bud, Kinyua Eunice, Elizabeth Mgamb, Jack Magara, Eliza Owino, Abel Omas, Millicent Ongidi, Richard Onkware, Diana Odhiambo, Dominic Mutai, Catherine Bonde, Nick Odiyo
- 906 SIX YEARS OF INTEGRASE INHIBITOR USE IN A METROPOLITAN CITY**
B. Sharmila Mohanraj, Qingjiang Hou, Anne K. Monroe, Princy Kumar, Seble Kassaye, for the DC Cohort Executive Committee
- 907 ANTIRETROVIRAL ADHERENCE AND HIV-1 DRUG RESISTANCE IN THE US**
Carmela Benson, Laura Mesana, **Keith J. Dunn**, Xiaotian Wu, Nicole Li, Johnny Lai, Eric Y. Wong, Kimberley Brown
- 908 PROFILES OF HIV CARE DISRUPTIONS IN ZAMBIA: A LATENT CLASS ANALYSIS**
Aaloke Mody, Kombatende Sikombe, Sheree Schwartz, Laura K. Beres, Ingrid Eshun-Wilson, Sandra Simbeza, Njekwa Mukamba, Carolyn Bolton Moore, Izukanji Sikazwe, Charles B. Holmes, Nancy Padian, Elvin Geng
- 909 SURVIVAL OF PEOPLE LIVING WITH AIDS IN BRAZIL: BIAIDS-BRAZIL COHORT**
Mariza V. Tancredi, Carmen S. Domingues, Ione A. Guibu, Eliseu A. Waldman, Fabio A. Pires, Marco A. Gutierrez, Adele Benzaken, Gerson F. Pereira
- 910 HIGH HIV PREVALENCE AND LOW ART COVERAGE AMONG AGYW WHO SELL SEX: A POOLED ANALYSIS**
Katherine Rucinski, Sheree Schwartz, Seni Koanda, Iliassou Mfochive, Ubaldo Tamoufe, Serge Billong, Douada Diouf, Fatou Drame, Vincent Pitche, Simplicite Anato, Sindy Matse, John Nkonyana, Nancy Phaswana-Mafuya, Harry Hausler, Stefan Baral
- 911 TIME TO UNDETECTABLE VIRAL LOAD ACHIEVEMENT AFTER ART START AND RISK OF MORTALITY**
Vincenzo Spagnuolo, Laura Galli, Alessandro Cozzi-Lepri, Giuseppe Lapadula, Andrea Antinori, Giancarlo Orofino, Nicoletta Bobbio, Maria Cristina Moioli, Andrea Calcagno, Andrea De Luca, Antonella D'Arminio Monforte, Antonella Castagna, for the ICONA Foundation Study Group
- 912 CONTRIBUTION OF HIV DISEASE AND CARE STAGES TO HIV TRANSMISSION AMONG BALTIMORE MSM**
Romain Silhol, Marie-Claude Boily, Dobromir Dimitrov, Danielle German, Colin Flynn, Jason Farley, Marcy Gelman, James P. Hughes, Deborah J. Donnell, Adeola Adeyeye, Robert H. Remien, Chris Beyrer, Gabriela Paz-Bailey, Cyprian Wejnert, Kate M. Mitchell
- 913 CHANGING CONTEXTUAL FACTORS POST-HIV DIAGNOSIS PREDICT 5-YR MORTALITY IN SOUTH AFRICA**
Ingrid V. Bassett, Ai Xu, Janet Giddy, Laura M. Bogart, Andrew Boule, Lucia Millham, Elena Losina, Robert A. Parker
- 914 MORTALITY RATE AND ASSOCIATED RISK FACTORS AMONG HIV-INFECTED ADULTS ON ART IN KENYA**
Jacques Muthusi, Irene Mukui, Evelyne Ngugi, Tai Ho Chen, Kenneth Masamaro, Samuel M. Mwalili, Peter W. Young, Emily C. Zielinski-Gutierrez

915 MORTALITY RATES AND CAUSES OF DEATH ACCORDING TO INCLUSION PERIOD IN HIV/HCV PATIENTS

Mathieu Chalouni, Dominique Salmon, Marc-Antoine Valantin, Firouze Bani-Sadr, Eric Rosenthal, Laure Esterle, Philippe Sogni, Linda Wittkop, for the ANRS C013 HEPAVIH study group

916 LOW RATE OF SEX-SPECIFIC ANALYSES IN CROI PRESENTATIONS IN 2018: ROOM TO IMPROVE

Monica Gandhi, Laura M. Smeaton, Christina Vernon, Eileen P. Scully, Sara Gianella, Selvamuthu Poongulali, Anandi N. Sheth, Marije Van Schalkwyk, Karin L. Klingman, William R. Short, Valarie S. Opollo, Susan E. Cohn, Kimberly K. Scarsi, Rosie Mngqibisa, Elizabeth Connick

Poster P-R6 MENTAL HEALTH AND HIV**Poster Hall - 4EF****2:30 PM - 4:00 PM****917 DEPRESSION AND ANXIETY AS A BARRIER TO ART INITIATION IN KWAZULU-NATAL, SOUTH AFRICA**

Michael Truong, Madhura Rane, Ann Vander Stoep, Paul K. Drain

918 KNOWLEDGE OF HIV STATUS DECREASES DEPRESSIVE SYMPTOMS AMONG FEMALE SEX WORKERS

Katrina F. Ortblad, Daniel Kibuuka Musoke, Michael M. Chanda, Thomson Ngabirano, Jennifer Velloza, Margaret McConnell, Catherine E. Oldenburg, Till Bärnighausen

919 TREATED MENTAL DISORDERS IN PRIMARY AND TERTIARY HIV CARE PROGRAMS IN CAPE TOWN

Andreas D. Haas, Yann Ruffieux, Nicki Tiffin, Hans Prozesky, Catherine Orrell, Mpho Tlali, Andrew Boule, Mary-Ann Davies, Matthias Egger, for the leDEA Southern Africa Collaboration

920 DATING VIOLENCE AND HIV-ASSOCIATED OUTCOMES AMONG ADOLESCENT SEXUAL-MINORITY MALES

Christine Agnew-Brune, Susan Cha, Alexandra Balaji, Brian Mustanski, Michael E. Newcomb, Kathleen Brady, Sarah L. Braunstein, Cyprian Wejnert, for the NHBS-YMSM study group

921 MULTILEVEL PREDICTORS OF SUICIDALITY AMONG HIV+ SUBSTANCE USERS IN 11 US CITIES

Adam W. Carrico, Viviana Horigian, Rui Duan, Daniel Feaster, Lauren Gooden, Allan Rodriguez, James Sorensen, Tim Matheson, Susan Tross, Grant Colfax, David Metzger, Petra Jacobs, Carlos del Rio, Lisa Metsch

Poster P-S4 REGENCY TESTING**Poster Hall - 4EF****2:30 PM - 4:00 PM****938 IMPACT OF EARLY ART INITIATION ON PERFORMANCE OF CROSS-SECTIONAL INCIDENCE ASSAYS**

Ethan B. Klock, Reinaldo Fernandez, Leigh Anne Eller, George Mwinnyaa, Josphat Kosgei, Hannah Kibuuka, Sorachai Nitayaphan, Richard D. Moore, Merlin L. Robb, Susan H. Eshleman, Oliver Laeyendecker

939 POINT-OF-CARE REGENCY TEST TO MEASURE HIV TRANSMISSION IN KEY POPULATION IN GUATEMALA

Carlos Vargas, Sanny Northbrook, Ricardo Mendizabal-Burastero, Sandra Juárez, Amalia Giron-Callejas, Cesar Galindo-Arandi, Lucia Saravia, Salvador Soto, Nasim Farach

- 940 FIRST USE OF POINT-OF-CARE HIV REGENCY TESTS AS A SURVEILLANCE TOOL IN NICARAGUA**
Sanny Northbrook, Carlos Vargas, Ricardo Mendizabal-Burastero, Jose Manuel Rodas Hernandez, Andrea A. Kim, Nasim Farach, Aleyda Solorzano, Luz Maria Romero, Bharat S. Parekh
- 941 PERFORMANCE COMPARISON OF THE MAXIM AND SEDIA LIMITING ANTIGEN AVIDITY ASSAYS**
Joseph B. Sempa, Gary Murphy, Jake Hall, Sheila M. Keating, Dylan Hampton, Shelley Facente, Kara Marson, Christopher D. Pilcher, Neil Parkin, Michael P. Busch, Alex Welte, Eduard Grebe, for the Consortium for the Evaluation and Performance of HIV Incidence Assays (CEPHIA)
- 942 IMPACT OF HIV-1 SUBTYPE AND SEX ON SEDIA LIMITING ANTIGEN AVIDITY ASSAY PERFORMANCE**
Eduard Grebe, Gary Murphy, Sheila M. Keating, Dylan Hampton, Michael P. Busch, Shelley Facente, Kara Marson, Christopher D. Pilcher, Andrew Longosz, Susan H. Eshleman, Thomas C. Quinn, Alex Welte, Neil Parkin, Oliver Laeyendecker, for the Consortium for the Evaluation and Performance of HIV Incidence Assays (CEPHIA)
- 943 ANTIBODY PROFILING IDENTIFIES NOVEL BIOMARKERS FOR DURATION OF HIV INFECTION**
Oliver Laeyendecker, Kai Kammers, Athena Chen, Mariya V. Sivay, Brandon Sie, Tiezheng Yuan, Divya Mohan, Daniel Wansley, Tomasz Kula, Charles S. Morrison, Stephen Elledge, Ron Brookmeyer, Ingo Ruczinski, H. Benjamin Larman, Susan H. Eshleman

Poster P-T6 KNOWLEDGE AND UPTAKE OF PrEP

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 971 ESTIMATED PrEP ELIGIBILITY IN A NATIONAL SEXUAL NETWORK STUDY OF US MSM**
Kevin M. Weiss, Pragati Prasad, Ramya Ramaraju, Emeli J. Anderson, Samuel Jenness
- 972 CHANGES IN HIV PrEP AWARENESS AND USE AMONG MEN WHO HAVE SEX WITH MEN, 2014 VS 2017**
Teresa Finlayson, Susan Cha, Damian Denson, Lindsay Trujillo, Mingjing xia, Joseph Prejean, Cyprian Wejnert, for the NHBS Study Group
- 973 ASSESSING THE PrEP CONTINUUM IN THE SAN FRANCISCO BAY AREA: THE QUICKIE MOBILE SURVEY**
Albert Y. Liu, Kenneth Coleman, Eric Vittinghoff, Caitlin Turner, Janie Vinson, Nicole Walker, Christina Quiñonez, Edward M. Gardner, Henry F. Raymond, Susan P. Buchbinder, Marguerita Lightfoot, Susan Scheer, Sean Arayasirikul, Erin C. Wilson
- 974 INFLUENCE OF PrEP4LOVE CAMPAIGN ON PrEP UPTAKE AMONG YMSM IN CHICAGO**
Gregory Phillips, Peter T. Lindeman, Anand B. Raman, Christina S. Hayford, Brian Mustanski
- 975 ASSOCIATION OF HIGHER RISK AND PrEP AWARENESS AMONG MSM IN BRAZIL, MEXICO, AND PERU**
Ryan D. Assaf, Kelika A. Konda, Thiago S. Torres, E. Hamid Vega-Ramirez, Oliver A. Elorreaga-Reyes, Dulce Diaz-Sosa, Steven D. Diaz, Cristina Pimenta, Hugo López-Gatell, Rebeca Robles-Garcia, Beatriz Grinsztejn, Carlos Carceres, Valdilea Veloso, for the ImPrEP Study Group

- 976 PrEP-RELATED BARRIERS AMONG MEN WHO HAVE SEX WITH MEN IN BRAZIL, MEXICO, & PERU**
Vincent B. Ofori, Ryan D. Assaf, Kelika A. Konda, Thiago S. Torres, E. Hamid Vega-Ramirez, Oliver A. Elorreaga-Reyes, Dulce Diaz-Sosa, Steven D. Diaz, Cristina Pimenta, Hugo López-Gatell, Rebeca Robles-Garcia, Beatriz Grinsztejn, Carlos Carceres, Valdilea Veloso, for the ImPrEP Study Group
- 977 DETERMINANTS OF PREEXPOSURE PROPHYLAXIS CASCADE AMONG NIGERIAN MSM**
Habib R. Omari, Nicaise Ndembi, Blessing Kayode, Ashley Shutt, Charlotte A. Gaydos, Julie Ake, Trevor A. Crowell, Stefan Baral, Rebecca G. Nowak, Man Charurat, for the For the TRUST/RV368 study Group
- 978 WOMEN'S PrEP KNOWLEDGE, ATTITUDES, PREFERENCES AND EXPERIENCE IN CHICAGO**
Lisa Hirschhorn, Rayna Brown, Eleanor E. Friedman, Cathy Christeller, George J. Greene, Alvie Bender, Alida Bouris, Laxmi Modali, Amy K. Johnson, Jim Pickett, Jessica Ridgway
- 979 HIV RISK AND CHARACTERISTICS OF WOMEN SEEKING PrEP IN A US DEMONSTRATION PROJECT**
Jill Blumenthal, Sheldon Morris, Sonia Jain, Feng He, Margaret R. Caplan, Eric Ellorin, Ryan M. Kofron, James F. Rooney, Gifty Ntim, Katya Calvo, Jamila Stockman, K. Rivet Amico, David J. Moore, Raphael J. Landovitz
- 980 CONCORDANCE OF HIV RISK PERCEPTION AND EMPIRIC RISK SCORE AMONG PREGNANT KENYAN WOMEN**
Laurén Gómez, John Kinuthia, Julia C. Dettinger, Jillian Pintye, Anjuli D. Wagner, Nancy M. Ngumbau, Ben O. Odhiambo, Mary M. Marwa, Salphine A. Wattoyi, Felix Abuna, Joshua Stern, Grace John-Stewart, Jared Baeten
- 981 LOW PrEP AWARENESS AND WILLINGNESS AMONG TRANSGENDER WOMEN IN SOUTH AFRICA**
 Tonia Poteat, Leigh Ann van der Merwe, Allanise Cloete, Dee Adams, Mannat Malik, **David B. Hanna**

Poster P-T7 POSTEXPOSURE PROPHYLAXIS

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 982 POSTEXPOSURE PROPHYLAXIS AND HIV RISK IN RWANDA: POTENTIAL FOR PEP-TO-PrEP PROGRAMS**
Sabin Nsanzimana, Remera Eric
- 983 ARE ROUTINE RENAL AND LIVER LABS TESTING AMONG PEP PATIENTS ON TDF/FTC/DTV NECESSARY?**
Tarek Mikati, Addie Crawley, Demetre C. Daskalakis
- 984 POSTEXPOSURE PROPHYLAXIS NONCOMPLETION AND NONCONDOM USE IN FRANCE, 2004-2017**
Pierre Gantner, Clotilde Allavena, Claudine Duvivier, André Cabié, Jacques Reynes, Alain Makinson, Isabelle Ravaux, Laurent Cotte, David Rey, for the Dat'AIDS Study Group
- 985 E/C/F/TAF SINGLE TABLET REGIMEN FOR HIV POSTEXPOSURE PROPHYLAXIS**
Pierre Gantner, Mojgan Hessamfar, Faouzi Souala, Nadia Valin, Anne Simon, Faiza Ajana, Emmanuelle Bouvet, Elisabeth Rouveix, Laurent Cotte, Firouze Bani-Sadr, Laurent Hustache-Mathieu, Marie-Gisele Lebrette, Patrice Muret, David Rey, for the E/C/F/TAF PEP Study Group

Poster P-T8 PrEP ADHERENCE AND PERSISTENCE

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 986 HIV INFECTION AND FTC/TDF IN DRIED BLOOD SPOT: A POOLED ANALYSIS OF GLOBAL STUDIES**
Li Tao, Scott McCallister, Lindsey Smith, Robertino Mera Giler, David Magnuson
- 987 PREDICTORS OF LONG-TERM HIV PrEP ADHERENCE AFTER TRIAL PARTICIPATION IN MSM**
Martin Hoenigl, David J. Moore, Peter L. Anderson, Katya Calvo, Michael Dube, Eric Ellorin, Jill Blumenthal, Sheldon Morris, for the California Collaborative Treatment Group (CCTG) 601 Team
- 988 PrEP STIGMA PREDICTS PrEP UPTAKE AND ADHERENCE: RESULTS FROM THE RADAR COHORT STUDY**
Brian Mustanski, Michael E. Newcomb, Daniel T. Ryan
- 989 LONGITUDINAL PREDICTORS OF PrEP DISCONTINUATION AMONG YMSM AND TRANSGENDER WOMEN**
Michael E. Newcomb, Ethan Morgan, Brian Feinstein, Brian Mustanski
- 990 STOPPING HIV PREEXPOSURE PROPHYLAXIS: REASONS AND IMPLICATIONS**
Uwe Koppe, Ulrich Marcus, Stefan Albrecht, Klaus Jansen, Heiko Jessen, Barbara Gunsenheimer-Bartmeyer, Viviane Bremer
- 991 FACTORS ASSOCIATED WITH REFUSING OR STOPPING PrEP AMONG AT-RISK MSM IN KENYA**
Elizabeth Wahome, Grace Mwashigadi, Bernadette Kombo, Makobu Kimani, Elisabeth M. van der Elst, Khamisi Mohamed, Mark Brockman, Susan M. Graham, Eduard Sanders
- 992 HIGH PrEP USE IN AFRICAN MEN AND WOMEN CONTINUING PrEP IN PUBLIC-HEALTH HIV CLINICS**
Elizabeth M. Irungu, Kenneth K. Mugwanya, Elizabeth A. Bukusi, Nelly R. Mugo, Josephine Odoyo, Elizabeth Wamoni, Kenneth Ngure, Jennifer F. Morton, Gabrielle O'Malley, Sarah Masyuko, Irene Mukui, Jessica E. Haberer, Peter L. Anderson, Jared Baeten, for the Partners Scale-Up Project Team
- 993 PERSISTENCE WITH PrEP USE IN AFRICAN ADOLESCENTS AND YOUNG WOMEN INITIATING PrEP**
Kenneth K. Mugwanya, Jillian Pintye, John Kinuthia, Harrison Lagat, Felix Abuna, Emily R. Begnel, Julia C. Dettinger, Grace John-Stewart, Jared Baeten, for the PrEP Implementation for Young Women and Adolescents Program Team
- 994 HIGH ADHERENCE AMONG YOUNG WOMEN IN CAPE TOWN IN THE FIRST 3 MONTHS AFTER PrEP START**
Connie L. Celum, Katherine M. Gill, Jennifer F. Morton, Gabrielle Stein, Ariane van der Straten, Jared Baeten, Margaret McConnell, Menna Duyver, Eve Mendel, Keshani Naidoo, Laura Myers, Lubbe Wiesner, **Linda-Gail Bekker**
- 995 ADHERENCE 3 MONTHS AFTER PrEP INITIATION AMONG YOUNG AFRICAN WOMEN IN HPTN 082**
Connie L. Celum, Nyaradzo Mgodi, Linda-Gail Bekker, Sybil Hosek, Deborah J. Donnell, Peter L. Anderson, Bonnie J. Dye, Subash Pathak, Yaw Agyei, Keolopile Makgamathe, Sheetal Kassim, Shorai Mukaka, Heather Noble, Adeola Adeyeye, Sinead Delany-Moretlwe

- 996 SHORT-TERM RETENTION ON PREEXPOSURE PROPHYLAXIS IN DEMOCRATIC REPUBLIC OF THE CONGO**
Halli S. Olsen, **William J. Reidy**, Nadine Mushimbele, Richted Tenda, Tania Tchissambou, Faustin Malele, Gaston Djomand, Trista Bingham, Jacob Dee, Elie Mukinda, Raimi Ewetola, Julie Franks
- 997 PREEXPOSURE PROPHYLAXIS: ACCEPTABILITY AND RETENTION IN SOUTH WESTERN UGANDA**
Joseph Kagaayi, James Batte, Gertrude Nakigozi, Hadijja Nakawooya, Boniface Kigozi, Dorean Nabukalu, Godfrey Kigozi, Helena Nordenstedt, Anna Mia Ekström, Susanne Strömdahl, Larry W. Chang, Ronald H. Gray, Steven J. Reynolds, Maria Wawer, David Serwadda

Poster P-V1 ART INITIATION
Poster Hall - 4EF

2:30 PM - 4:00 PM

- 1016 "TREAT ALL" ADOPTION IMPROVES RAPID TREATMENT INITIATION IN 6 SUB-SAHARAN COUNTRIES**
Olga Tymejczyk, Ellen Brazier, Constantin T. Yiannoutsos, Peter F. Rebeiro, Kara K. Woos-Kaloustian, Mary-Ann Davies, Elizabeth Zaniewski, Mark Urassa, Jean d'Amour Sinayobye, Nanina Anderegg, Grace Liu, Nathan Ford, **Denis Nash**, for the IeDEA Consortium
- 1017 OUTCOMES OF "TEST AND START" AT SCALE WITHIN HAITI'S NATIONAL ART PROGRAM**
Nancy Puttkammer, Kesner Francois, Yrvel Desir, Gracia Desforges, Nadjy Joseph, Nathaelf Hyppolite, Jean Guy Honore, Jean Solon Valles, Ermane Robin, Patrice Joseph
- 1018 SAME-DAY ART INITIATION IN THE SLATE TRIAL IN KENYA: PRELIMINARY RESULTS**
Alana T. Brennan, Bruce Larson, Isaac Tsikhutsu, Margaret Bii, Matthew P. Fox, Willem D. Venter, Mhairi Maskew, Lungisile Vezi, **Sydney Rosen**
- 1019LB WITHDRAWN/INTENTIONALLY UNASSIGNED**
- 1020 IMPLEMENTING UTT IN AFRICAN CORRECTIONAL FACILITIES: A PROSPECTIVE COHORT STUDY**
Michael Herce, Christopher Hoffmann, Katherine Fielding, Steph Topp, Harry Hausler, Helene Smith, Lucy Chimoyi, Candice Chetty-Makan, Rachek Mukora, Mpho Tlali, Abraham Olivier, Monde Muyoyeta, Stewart Reid, Salome Charalambous
- 1021 IMPROVEMENT IN TIME TO ART INITIATION REGARDLESS OF TB STATUS IN LATIN AMERICA**
Bryan E. Shepherd, Serena Koenig, Ahra Kim, Cathy Jenkins, Pedro Cahn, Beatriz Grinsztejn, Marcelo Wolff, Denis Padgett, Juan Sierra-Madero, Eduardo Gotuzzo, Catherine McGowan, Jean William Pape, Timothy R. Sterling, for the The Caribbean, Central and South America Network for HIV Epidemiology (CCASAnet)
- 1022 UPTAKE OF ANTIRETROVIRAL THERAPY IN THE "TREAT ALL" ERA IN RIO DE JANEIRO, BRAZIL**
Lelia H. Chaisson, Juliana Domenico, Valeria Saraceni, Richard D. Moore, Jonathan Golub, Betina Durovni
- 1023 NARROWING THE GAP IN CD4 COUNT AT ENTRY INTO CARE AND AT ART INITIATION, 2005-2016**
Jennifer S. Lee, Richard D. Moore, Stephen J. Gange, Yuezhou Jing, Marina Klein, Peter F. Rebeiro, Kathryn Anastos, Amy C. Justice, Michael A. Horberg, Mari Kitahata, W. C. Mathews, Michael J. Silverberg, Angel M. Mayor, Keri N. Althoff, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA

1024 PATIENT-REPORTED REASONS FOR DECLINING IMMEDIATE ART INITIATION IN LUSAKA, ZAMBIA

Jake Pry, Jenala Chipungu, Carolyn Bolton Moore, Jacob Mutale, Helene Smith, Theodora Savory, Michael Herce

1025LB CASCADE TRIAL: 24 MONTH OUTCOMES AFTER SAME-DAY HOME-BASED ART INITIATION

Alain Amstutz, Isaac Ringera, Thabo I. Lejone, Josephine Muhairwe, Jennifer A. Brown, Thomas Klimkait, Tracy R. Glass, **Niklaus D. Labhardt**

Poster P-V4 VIRAL LOAD MONITORING AND VIRAL SUPPRESSION**Poster Hall - 4EF****2:30 PM - 4:00 PM****1045 VIRAL LOAD MONITORING AND FIRST-LINE FAILURE CASCADE OF CARE IN RURAL SOUTH AFRICA**

Collins C. Iwuji, Maryam Shahmanesh, Olivier Koole, Kobus Herbst, Deenan Pillay, Mark J. Siedner, Kathy Baisley

1046 MACHINE LEARNING APPLIED TO ELECTRONIC ADHERENCE DATA TO INFORM VIRAL LOAD MONITORING

Alejandra E. Benitez, Maya L. Petersen, Nicholas Musinguzi, David R. Bangsberg, Yap Boum, Bosco M. Bwana, Conrad Muzoora, Peter W. Hunt, Jeffrey N. Martin, Jessica E. Haberer

1047 PREDICTORS OF ART INITIATION AND VIRAL SUPPRESSION IN A LARGE COHORT IN UKRAINE

Kostyantyn Dumchev, Iuliia Novak, Tetiana Saliuk

1048 SOCIAL NETWORKS AND TIE STRENGTH PREDICT OUTCOMES OF HIV+ YOUTH IN SEARCH TRIAL

Lillian Brown, Laura B. Balzer, Jane Kabami, Dalsone Kwarisiima, Norton Sang, James Ayieko, Edwin D. Charlebois, Gabriel Chamie, Theodore Ruel, Elizabeth A. Bukusi, Craig R. Cohen, Moses R. Kanya, Diane V. Havlir, Maya L. Petersen

1049 ASSOCIATION BETWEEN HIV CLINIC CASELOADS AND VIRAL LOAD SUPPRESSION IN NEW YORK CITY

Saiganesh Ravikumar, Erica D'Aquila, Muhammad Daud, Carly Skinner, Craig Hayes, Ellen Brazier, Tyeirra Seabrook, Erica Crittendon, Demetre C. Daskalakis, Bisrat Abraham

1050 VIRAL SUPPRESSION AMONG PEOPLE INITIATING HIV CARE: OUTCOMES FROM THE IENGAGE TRIAL

K. Rivet Amico, Riddhi Modi, Andrew Westfall, James Willig, Jeanne C. Keruly, Sonia Napravnik, Heidi M. Crane, Evelyn B. Quinlivan, Anne L. Zinski, Carol E. Golin, Dustin M. Long, Richard D. Moore, Michael Saag, James Raper, **Michael J. Mugavero**

1051 INCREASES IN KNOWLEDGE OF HIV POSITIVE STATUS, ART, AND VIRAL SUPPRESSION IN BCPP

Refeletswe Lebelonyane, Pamela J. Bachanas, Mary Grace Alwano, William Abrams, Lisa Block, Gene Ussery, James A. Miller, Huisheng Wang, Lisa A. Mills, Tafireyi Marukutira, Faith Ussery, Shenaaz El Halabi, Michelle Roland, Kathleen Wirth, Janet Moore

1052 SUCCESSFUL VIRAL OUTCOMES AFTER IMPLEMENTING "TREAT ALL" IN SOUTH AFRICAN CLINICS

Jienchi Dorward, Yuktेशwar Sookrajh, Kelly Gates, Nigel Garrett

- 1053 REACHING TOWARD 90-90-90 AMONGST CORRECTIONAL FACILITY INMATES IN ZAMBIA**
Michael Herce, **Christopher Hoffmann**, Steph Topp, Harry Hausler, Helene Smith, Lucy Chimoyi, Candice Chetty-Makan, Rachek Mukora, Abraham Olivier, Monde Muyoyeta, Stewart Reid, Salome Charalambous, Katherine Fielding
- 1054 DIFFERENTIATED CARE PREFERENCES OF STABLE PATIENTS ON ART IN ZAMBIA**
Ingrid Eshun-Wilson, Mpande Mukumbwa-Mwenechanya, Hae-Young Kim, Arianna L. Zanolini, Chanda Mwamba, David Dowdy, Laura K. Beres, Monika Roy, Anjali Sharma, Steph Topp, Nancy Padian, Izukanji Sikazwe, Charles B. Holmes, Carolyn Bolton Moore, Elvin Geng
- 1055 DURABLE VIRAL SUPPRESSION AMONG PEOPLE WITH ACUTE AND NONACUTE HIV IN NORTH CAROLINA**
Nicole Dzialowy Adams, Brad Wheeler, Anna Cope, Victoria L. Mobley, John Barnhart, Joann D. Kuruc, Cynthia L. Gay, Lindsey M. Filiatreau, Rhonda Ashby, Erika Samoff
- 1056 IMPLEMENTING U=U IN THE HIV CLINIC: CAN WE PREDICT HIV NONSUPPRESSION?**
Fizza S. Gillani, Su Aung, Joseph Garland, **Curt G. Beckwith**
- 1057 FACTORS ASSOCIATED WITH LACK OF VIRAL SUPPRESSION IN THE YEAR AFTER HIV DIAGNOSIS**
Bridget M. Whelan, Paul L. Hebert, Kym R. Ahrens, Susan E. Buskin, Matthew R. Golden, Julia C. Dombrowski
- 1058 THE IMPACT OF "CHURN" ON CUMULATIVE PLASMA HIV BURDEN WITHIN A POPULATION UNDER CARE**
Michael John Gill, Hartmut B. Krentz
- 1059 RESUPPRESSION AFTER VIREMIA VERSUS VIROLOGIC FAILURE IN KHAYELITSHA, SOUTH AFRICA**
Jonathan Euvrard, Amir Shroufi, Meg Osler, Katherine Hilderbrand, Laura Trivino Duran, Andrew Boule
- 1060 HIGH AWARENESS BUT UNCERTAIN BELIEF IN U=U AMONG PROVIDERS AND COUPLES IN KENYA**
Kenneth Ngiro, Fernandos K. Ongolly, Annabell Dollah, Kenneth K. Mugwanya, Merceline Awuor, Elizabeth M. Irungu, Nelly R. Mugo, Elizabeth A. Bukusi, Jennifer F. Morton, Josephine Odoyo, Elizabeth Wamoni, Gena Barnabee, Kathryn Peebles, Gabrielle O'Malley, Jared Baeten
- 1061 RESUPPRESSION AFTER POINT-OF-CARE VIRAL LOAD TESTING TO GUIDE ADHERENCE COUNSELING**
Giovanni Villa, Dorcas Owusu, Marilyn Azumah, Colette J. Smith, Adam Abdullahi, Dominic Awuah, Laila Sayeed, Apostolos Beloukas, David Chadwick, Richard Phillips, Anna Maria Geretti

Poster P-W2 MODELING THE IMPACT OF PREVENTION AND TREATMENT ON THE HIV EPIDEMIC

Poster Hall - 4EF

2:30 PM - 4:00 PM

- 1084 EPIDEMIC IMPACT OF SUSTAINED VIREMIA AMONG FEMALE SEX WORKERS IN SOUTHERN AFRICA**
Sharmistha Mishra, Huiting Ma, Sheree Schwartz, Deliwe R. Phetlhu, Vijayanand Guddera, Nora West, Carly Comins, Harry Hausler, Stefan Baral, for the Siyamphambili Study Team

- 1085 ESTIMATING HIV INCIDENCE AMONG YOUNG WOMEN IN HPTN 082 USING BASELINE HIV RISK SCORES**
James R. Moore, Deborah J. Donnell, Marie-Claude Boily, Kate M. Mitchell, Sinead Delany-Moretlwe, Connie L. Celum, Dobromir Dimitrov
- 1086 A MATHEMATICAL MODELING ANALYSIS OF COMBINATION HIV PREVENTION IN ANTENATAL CLINICS**
Kimberly A. Powers, Kate Orroth, Nora E. Rosenberg, Lauren A. Graybill, Andrew Kumwenda, Tiwonge Mtande, Katie Mollan, Oliver Mweemba, Wilbroad Mutale, Benjamin H. Chi
- 1087 SCALE-UP OF ART AND VMMC EXPLAIN A TWO-FOLD DECLINE IN HIV INCIDENCE IN WESTERN KENYA**
Anna Bershteyn, Adam N. Akullian, Daniel J. Klein, Britta Jewell, Kennedy Mutai, Samuel M. Mwalili
- 1088 SIMULATED VACCINE EFFICACY TRIALS TO ESTIMATE HIV INCIDENCE IN KEY POPULATIONS**
Andrew M. Abaasa, Stephen Nash, Yunia Mayanja, Matt A. Price, Patricia E. Fast, Pontiano Kaleebu, Anatoli Kamali, Jim Todd
- 1089 THE PROJECTED AGE DISTRIBUTION OF WHITE, BLACK, AND HISPANIC MSM ON ART, 2009-2030**
 Parastu Kasaie, Elizabeth Humes, Stephen J. Gange, Amy C. Justice, Kelly Gebo, Cynthia Boyd, Emily P. Hyle, Carolyn Williams, Jinbing Zhang, Raquel Cruz-Stratton, Robert S. Hogg, Mari Kitahata, Richard D. Moore, **Keri N. Althoff**, for the North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA
- 1090 YOUTH-FOCUSED HIV TREATMENT-AS-PREVENTION YIELDS LARGE BENEFITS: A SIMULATION MODEL**
John E. Mittler, James Murphy, Sarah E. Stansfield, Kathryn Peebles, Geoffrey S. Gottlieb, Neil Abernethy, Steven M. Goodreau, Joshua T. Herbeck
- 1091 WHO IS LEFT IN 10-10-10? IMPORTANCE OF REACHING KEY POPULATIONS WITH THE HIV CASCADE**
Jesse Knight, Huiting Ma, Stefan Baral, Sosthenes Ketende, Oluwasolape M. Olawore, Amrita Rao, Carly Comins, Sheree Schwartz, Harry Hausler, Katherine Young, Mfezi Mcingana, Vijayanand Guddera, Sindy Matse, Zandile Mnisi, Sharmistha Mishra
- 1092 TasP COVERAGE MAY INCREASE WITHOUT SELECTING FOR MORE VIRULENT HIV: A MODELING STUDY**
Sarah E. Stansfield, Joshua T. Herbeck, Geoffrey S. Gottlieb, Neil Abernethy, James Murphy, John E. Mittler, Steven M. Goodreau

POSTER SESSIONS, BY CATEGORY

All poster sessions will be held from 2:30 PM to 4:00 PM on the scheduled day (listed in parenthesis below). Posters should be displayed for the duration of the conference and are located in Hall 4 EF.

A. VIROLOGY

- P-A1 EARLY EVENTS (Tuesday)
- P-A2 VIRAL RESTRICTION (Tuesday)
- P-A3 MECHANISTIC VIROLOGY (Wednesday)
- P-A4 HOST-VIRUS INTERACTIONS (Wednesday)
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- P-D2 NOVEL THERAPEUTIC INTERVENTIONS INCLUDING EARLY ART (Tuesday)
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- P-E05 HIV CURATIVE APPROACHES: ANTIBODIES AND CAR-T CELL (Thursday)
- P-E06 HIV CURATIVE APPROACHES: IN VITRO (Wednesday)
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- P-E08 MECHANISMS OF LATENCY (Wednesday)
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- P-E10 INSIGHTS FROM ANALYTICAL TREATMENT INTERRUPTION (Wednesday)
- P-E11 HUMAN STUDIES OF CURATIVE STRATEGIES AND ATI (Wednesday)

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- P-F2 NEUROPATHOGENESIS AND MODELING: HIV AND SIV (Wednesday)
- P-F3 CNS DRUG TOXICITY: ART, HDAC, AND OTHERS (Wednesday)
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- P-G2 ARV AND ANTIHEPATITIS PHARMACOKINETICS, PHARMACOGENETICS, AND DRUG INTERACTIONS (Wednesday)
- P-G3 ARV PHARMACOLOGY IN COMPARTMENTS AND RESERVOIRS (Thursday)

H. ANTIRETROVIRAL THERAPY: PRE-CLINICAL DATA, RANDOMIZED TRIALS, EFFICACY AND EFFECTIVENESS STUDIES

- P-H1 NOVEL ANTIRETROVIRAL AGENTS AND FORMULATIONS (Thursday)
- P-H2 IT TAKES TWO BABY(?): TWO DRUG ART (Thursday)
- P-H3 VIROLOGIC FAILURES: TO SECOND LINE AND BEYOND (Wednesday)
- P-H4 SECONDARY ANALYSIS AND DESIGN ISSUES IN CLINICAL TRIALS AND OBSERVATION STUDIES (Wednesday)
- P-H5 STRATEGIES: OLD AND NEW (Wednesday)
- P-H6 WOMEN AND HIV: ARE OUTCOMES DIFFERENT? (Tuesday)
- P-H7 ACUTE INFECTION AND HIV TRANSMISSION (Tuesday)

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- P-I1 RESISTANCE SPREAD AND ITS IMPACT ON ART (Tuesday)
- P-I2 PREVALENCE AND SPREAD OF RESISTANCE (Tuesday)
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- P-J1 HIV DIAGNOSTICS: IT'S FOR THE VIRUS, STUPID (Thursday)

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- P-K2 HCV THERAPEUTICS: MOVING FROM TREATING THE PERSON TO TREATING THE POPULATION (Tuesday)
- P-K3 HCV TRANSMISSION: THE (MOLECULAR) WEBS WE WEAVE (Wednesday)
- P-K4 HCV AND HIV: CANCER INFLAMMATION AND FIBROSIS (Wednesday)
- P-K5 HIV AND HBV INFECTION (Thursday)
- P-K6 HIV AND HBV: BAD (LIVER) BEDFELLOWS (Thursday)

L. AIDS-RELATED MALIGNANCIES HAS BEEN INTEGRATED INTO C. HIV-ASSOCIATED TUMOR VIRUSES AND AIDS-RELATED MALIGNANCIES**M. CARDIOVASCULAR COMPLICATIONS OF HIV INFECTION AND ANTIRETROVIRAL THERAPY**

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- P-M2 COAGULATION ABNORMALITIES IN HIV: WHAT'S THE CLOT GOT TO DO WITH IT? (Tuesday)
- P-M3 BEYOND TRADITIONAL RISK FACTORS: MECHANISMS OF VASCULAR DISEASE IN HIV (Wednesday)
- P-M4 ALL THINGS LIPIDS (Wednesday)
- P-M5 ENDOTHELIAL DYSFUNCTIONS: THE VIRUS, ART, AND OTHER FACTORS (Wednesday)
- P-M6 HEART FAILURE AND PULMONARY DISEASE (Thursday)
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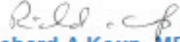
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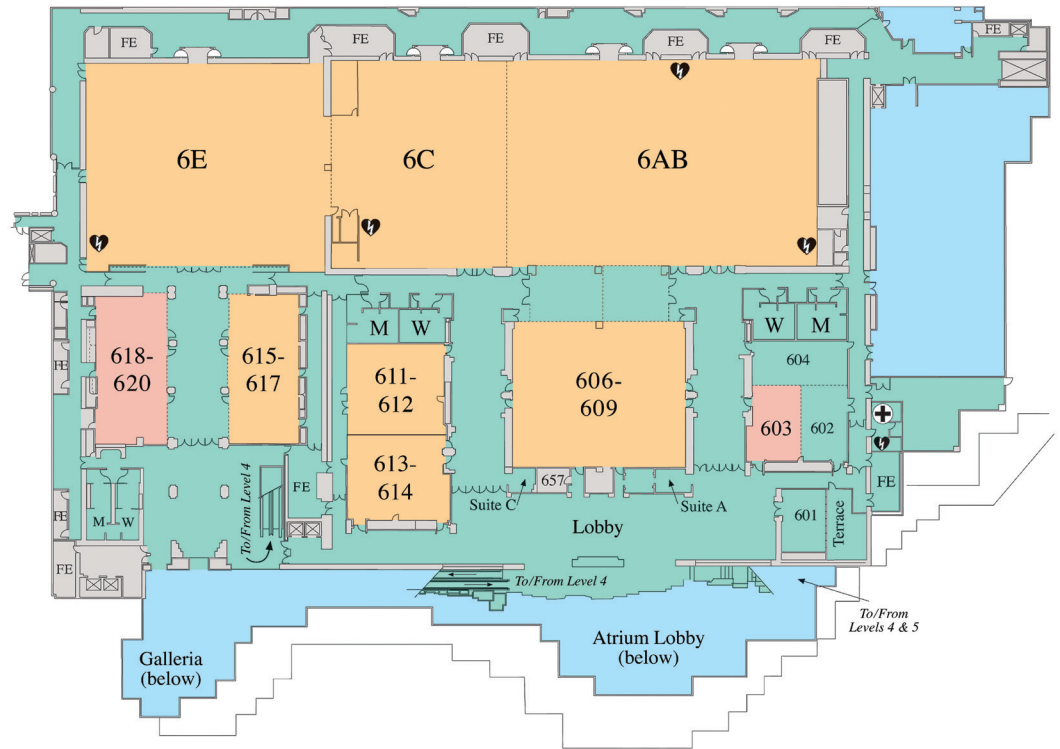
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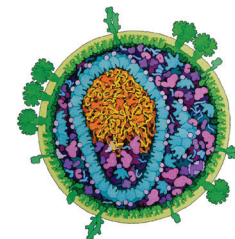


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